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भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 45] नई दिल्ली, शनिवार, नवम्बर 5, 1988 (कार्तिक 14, 1910)

No. 45] NEW DELHI, SATURDAY, NOVEMBER 5, 1988 (KARTIKA 14, 1910)

(इस भाग में भिन्न पृष्ठ संख्या ही जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)

(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office Relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 5th November 1988

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below:—

Patent Office Branch, Todi Estates,
III Floor, Lower Parel (West),
Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and, the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All application, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

Calcutta, the 5th November 1988

APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 234/4, ACHARYA JAGDISH BOSE ROAD,
CALCUTTA-20

The dates shown in crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 29th September, 1988

807/Cal/88. Apace Research Limited. An emulsion of liquid hydrocarbons with water or alcohols. (Convention dated 12-3-1982 & 30-11-1982) both are Australia.

808/Cal/88. Hoechst Aktiengesellschaft. Hydroxyethylsulfonylnitro-and hydroxyethylsulfonylaminobenzoic acids and processes for their preparation.

809/Cal/88. Siemens Aktiengesellschaft. Sheet metal shield for a subassembly case.

810/Cal/88. Universitet Druzhby Narodov Imeni Patrisa Lumumby Usor. Radial-flow fan.

The 30th September, 1988

811/Cal/88. Bernd Ostermeyer. Side tipper support system.

812/Cal/88. Siemens Aktiengesellschaft. Auxiliary winding on a generator including the clamping bolts of the laminated stator core.

The 3rd October, 1988

813/Cal/88. Johnson & Johnson. Wound dressing with activated carbon. (Convention dated 6-10-1987) U.K.

814/Cal/88. Siemens Aktiengesellschaft. Arrangement for measuring the slip of electric induction motors.

815/Cal/88. Nukem GmbH. Method and device for cleaning in particular of disc-shaped oxide substrate.

816/Cal/88. Trylon Associates Ltd. A medical examination illuminating device. [Divisional dated 6-3-1985].

The 4th October, 1988

817/Cal/88. Om Chandra Kafley. The OM's method for detection and prosecution of piracy in copyright works.

818/Cal/88. Norsolor. Functionalized ethylene polymers useful for metal coating and process for their preparation.

819/Cal/88. Agustin Arana Erana. Improvements introduced in the formation of foundry core blocks.

820/Cal/88. Young Ho Yoo. Pneumatic tyre assembly.

821/Cal/88. Cyprus Industrial Minerals Company. Method and apparatus for friction sorting of particulate materials.

APPLICATION FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, MUNICIPAL MARKET
BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

The 12th September, 1988

766/Del/88. Clark Automotive Development Limited, "A motor or alternator".

(Convention date 15th September, 1987) (New Zealand).

767/Del/88. MTA Kozponti Kemiai Kutato Intezete and Magyar Szenhidrogenipari Kutato-Fejleszto Intezet, "Ignition process for oil recovery from Heterogeneous hydrocarbon-bearing formations".

768/Del/88. Champion Spark Plug Europe S.A., "Spark plug for internal combustion engine".
(Convention date 17th September, 1987) (U.K.).

769/Del/88. Alexandr Semenovich Bukatov, Irina Viktorovna Koroteeva, Naum Abramovich Iofis, Anatoly Stepanovich kostretsov, "Titanium implant for cardiovascular surgery and a method for making same".

770/Del/88. Bharat Heavy Electricals Limited, "A semi-automatic card testing system".

The 13th September, 1988

771/Del/88. The B.F. Goodrich Company, "Frosted polymeric articles and process for producing same".

772/Del/88. Exxon Chemical Patents Inc., "Fuel oil additives".

(Convention date 18th September, 1987) (U.K.).

773/Del/88. Eastway Holdings Limited, "Method of securing the stator of an electrical machine".
[Divisional date 9th January, 1986].

774/Del/88. Alenax Corporation, "Propulsion mechanism for lever propelled bicycles".
[Divisional date 22nd January, 1986].

The 14th September, 1988

775/Del/88. Ranbaxy Laboratories Limited, "A new class of homogeneous catalysts for the preparation of α -6-Deoxy-Tetracyclines".

776/Del/88. Ranbaxy Laboratories Limited, "A new process for the preparation of α -6-Deoxytetracyclines".

777/Del/88. UOP, "Alkylation/Transalkylation process for Selective production of monoalkylated Aromatics".

778/Del/88. Arrow Oil Tools, Inc., "Retractable slip assembly".

779/Del/88. The Procter & Gamble Company, "Absorbent structures with gelling agent and absorbent articles containing such structures".

780/Del/88. The B.F. Goodrich Company, "A method of stabilizing a vinyl halide resin".

[Divisional date 8th April, 1986].

781/Del/88. Skating International Pty. Limited, "A ride-on whelld toy".

(Convention date 18-9-1987, 29th January, 1988 & 5th February, 1988) (Australia).

The 16th September, 1988

782/Del/88. Medaki Yamada, Nitto Kagaku Kogyo Kabushiki Kaisha, "Process for biological production of amides".

783/Del/88. Petr Andreevich Bogdanov and others, "Rotary Internal combustion engine".

784/Del/88. Alla Venkata Krishna Reddy, "Prophylactic device".

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

The 12th September 1988

639/Mas/88. Uppinangady Varadaraya Nayak. A self resetting attachment device for attachment to a projection such as a bar, pole, stem or a frame member.

640/Mas/88. Yogendra Honsor Sanjeeva Sheety. Portable smoke tube boiler and domestic boilers

641/Mas/88. Linde Aktiengesellschaft. Process for H₂/CO separation by means of partial condensation at a low temperature.

642/Mas/88. Institut Francais Du Petrole. A method and device to actuate specialized intervention equipment in a drilled well having at least one section highly slanted with respect to a vertical line.

The 13th September, 1988

643/Mas/88. BASF Aktiengesellschaft. Condensates of bis-(4-hydroxyphenyl) sulfone as tanning assistants, their preparation and use in the tanning of leather.

644/Mas/88. Fives-Cail Babcock. Fluidized bed combustion process and plant for the implementation of this process.

The 14th September, 1988

645/Mas/88. K. Seshadri. Compression ignition opposed piston multicylinder compounded engines; (as four stroke).

646/Mas/88. G. Venkatramana Bhat. Frictionless thrust ball bearing.

647/Mas/88. G. Venkatramana Bhat. Frictionless roller bearing.

648/Mas/88. G. Venkatramana Bhat. Frictionless taper roller bearing.

649/Mas/88. G. Venkatramana Bhat. Frictionless Thrust roller bearing.

650/Mas/88. Dr. Jose Thaikattil. Funnel.

The 16th September 1988

651/Mas/88. Centralen Institute Po Chemicheska Promishlenost. Insecticide means for protection from harmful insects of species homoptera and thysanoptera.

652/Mas/88. The Dow Chemical Company. Improved casting process.

The 19th September, 1988

653/Mas/88. Srinivasa Iyer Gopalakrishnan. A single phase cum dry run preventor (current sensing type with 30 second tolerance of dry run) for three phase agricultural pumps.

654/Mas/88. Indian Institute of Science. A process for preparation of zinc oxide composites for low and high voltage surge.

655/Mas/88. Astra Research Centre. A method of obtaining antigens of cysticercus cellulosae for immunodiagnosis of cysticercosis and the uses thereof.

656/Mas/88. Henkel Kommanditgesellschaft auf Aktien. A water-soluble multipurpose adhesive.

657/Mas/88. Nippon Chemiphar Co., Ltd. Process for the preparation of an alkylene diamine derivative. (Divisional to Patent No. 63/Mas/87.

The 20th September, 1988

658/Mas/88. Alladi Prabhakar. Auto Generator Starter.

659/Mas/88. Foseco International Limited. Rotary fouting nozzle for a vessel for holding molten metal. (October 1, 1987; United Kingdom).

660/Mas/88. Vereinigte Aluminium-werke Aktiengesellschaft. Tubular reactor for the high-temperature decomposition of bauxite containing boehmite and diaspore.

661/Mas/88. Advanced Extraction Technologies, Inc. Processing nitrogen-rich hydrogen-rich, and olefin-rich gases with physical solvents.

The 21st September, 1988

662/Mas/88. Thor S.A. An axle assembly for a motor vehicle.

663/Mas/88. Pumptech N.V. Oil-well cement slurries with good fluid-loss control.

664/Mas/88. Dynamit Nobel Aktiengesellschaft. Pre-barrel safety mechanism on a projectile with percussion fuse.

The 22nd September, 1988

665/Mas/88. Dana Corporation. Unitary Molded plastic seal.

The 23rd September, 1988

666/Mas/88. The Marmon Corporation. Hatcher with internally mounted exhaust duct and exhaust damper control means.

667/Mas/88. Danaklon A/S. Reinforcing fibres and a method of producing the same.

ALTERATION OF DATE

163740. Ante dated to 29th September, 1984.
(515/Cal/87)

OPPOSITION PROCEEDINGS

An opposition has been entered by National Council for Cement & Building materials to the grant of a patent on application No. 162194 made by Durga Prasad Saboo.

The opposition entered by Mr. Subramanian Sundaram to the grant of a patent on Application No. 151868 made by M/s. Primatek Machinery Pvt. Ltd. as notified in the Gazette of India, Part III, Section 2 dated 17th March, 1984 has been dismissed but the application will proceed to sealing only after the decision in the other opposition case as notified on 17th March, 1984 in the same Gazette is decided in applicant's favour.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by Eskla B. V. under Section 20(1) of the Patents Act, 1970, to proceed the Application for Patent No. 161954 in their name has been allowed.

PATENTS SEALED

160351	161365	161387	161417	161501	161502	161510
161537	161665	161723	161746	161747	161757	161774
161817	161858	161860	161861	161872	161873	161881
161884	161886	161888	161890	161902	161906	161907
161916	161924	161933	161938	161940	161942	161948
161968	162001	162006	162076	162076	162087	162097
162148	162151	162178				

No. of PATENTS SEALED MONTHWISE FROM 1ST JANUARY, 1988 to 30th SEPTEMBER' 1988

	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	TOTAL
INDIAN : .	54	56	67	45	100	108	87	76	100	693
FOREIGN : .	185	118	133	138	224	280	329	234	338	1979
TOTAL : .	239	174	200	183	324	388	416	310	438	2672

REGISTRATION OF ASSIGNMENTS LICENCES ETC.
(PATENTS)

In pursuance of an application received on 14th March, 1986, Lydall Inc. of one Colonial Road, Manchester, Con-

necticut, 06040 registered as proprietors by virtue of an assignment deed dated 14th May, 1985 and made between Rogers Corporation of the one part and Lydall Inc. of other part in respect of Patent No. 148463.

STATEMENT REGARDING ASSIGNMENTS OR PATENTS REGISTERED UNDER SECTION 68 AND 69
FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.
FORM INDIAN TO INDIAN

Patent Nos.	Patentee	Assigned to	Assigned on	Entry made under section	Entry made on
153546	Council of Scientific & Industrial Research of New Delhi.	National Research Development Corporation of India, New Delhi.	6-10-87	68	23-2-88
153539	Asit Kumar Banerjee and Saty Prasad Das Gupta of Britannia Eng. Co. Ltd. W. Bengal India.	Britannia Eng. Products & Services Limited Cal. India.	7-12-87	68 & 69	4-4-88
149429	Kadarundaligo Sita Ramdas Gururaja Doss, Tamil Nadu, India.	Satwio Electric Controls Private Limited Nasik Maharashtra, India.	29-2-88	68 and 69	29-3-88 4-4-88
158623	Mr. John Michael Pereira, Bombay.	M/s. Pereira Equipments Mfg. Co. Bombay.	1-3-88	68	2-6-88

STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTION 68 AND 69 FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.

FORM FOREIGNERS TO INDIAN

Patent Nos.	Patentee	Licence granted to	Licence granted on	Entry made on	Entry under made u/s
154151	Foster Wheeler Power Products Limited, England.	Indage Engineering Pvt. Ltd. Bombay.	21-10-87	5-4-88	68 and 69
151480	Machinenfabrik	Lakshmi Machines Worfts Limited Coimbatore, India.	14-4-88	30-6-88	68 and 69
152373	Rieter Ag	Do.	Do.	Do.	68 and 69
151767	Switzerland	Do.	Do.	Do.	68 and 69
131565, 130085, 130859 131885, 133270, 134889 134890, 135369, 136062 136186, 137264, 138321 138585, 139094, 139374, 139475, 139488, 139812 140203, 140215, 141053 142087, 142145, 142345 143001, 143076, 143542, 146711, 146712, 146713, 146714, 147491, 148778, 149242, 149294, 149295, 149296, 149297, 149394, 149427, 149638, 149798, 149834, 149835, 149898, 150269, 150046, 150178, 150356, 150358, 150461, 150635, 150636, 150638, 150673, 150779, 151873, 151332, 151352 & 149968.	Brakes India Ltd. an Indian Company having its regd. Offlce at Nt. 180, Mount Road Madras 600006 India	4-7-84 23-12-87 to 24-3-88		68 and 69	
	"	"	"	"	68

**STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER
SECTIONS 68 AND 69 FOR THE PERIOD OF JANUARY 1988 TO AUGUST 1988.**
FROM INDIAN TO INDIAN

Patent No.	Patentee	Licence granted to	Licence Granted on	Entry made on	Entry made under Sec.
145250	National Research Development Corporation of Indian, New Delhi.	Bijay Jain of M/s Manipur Ferroconcrete Products, Manipur, India.	18-3-88	8-8-88	68
	Do.	M/s Santi Concrete Industries, Ganjbajar Meerut, India.	5-1-88	Do.	68
	Do.	M/s Ravindra Industries 1235/4 Urban Estate Gurgaon	Do.	Do.	68
	Do.	Jawahar Singh of M/s Ferrocement Concrete Products.	9-9-87	29-8-88	68
156855	Central Mines Planning & Design Institute Ltd. and Eastern Carbons India.	Jai Durga Industries an Indian Partnership Firm, Ram Nagar Varanasi U.P. India.	14-8-87	21-3-88	68 & 69
156948	Dr Iqbal Krishna Bharati, Maharashtra India.	Ensavo Contrle Pvt. Ltd. W.B. Great Kailash Part II, New Delhi.	26-2-88	10.6.88	68

RENEWAL FEES PAID

140635	140642	142706	143277	143444	143619	143877	157819	157830	157874	158096	158136	158137	158139
143878	143912	144171	144230	144293	144695	145083	158249	158256	158263	158279	158297	158308	158310
145084	145085	145463	145533	145553	145702	145966	158317	158370	158425	158426	158472	158518	158523
146221	146370	146400	146410	146517	146531	146542	158525	158529	158530	158551	158571	158572	158732
146543	146940	147213	147955	148110	148205	148257	158740	158879	158931	158953	158957	158970	158989
148309	148429	148460	148463	148603	148667	148768	159013	159097	159137	159139	159166	159167	159179
148776	148777	148779	148782	148893	149418	149664	159305	159312	159319	159341	159359	159360	159373
149883	150058	150059	150151	150188	150486	150541	159374	159382	159383	159423	159424	159426	159438
150612	150654	150668	150945	151245	151347	151449	159442	159443	159444	159450	159451	159453	159455
151895	151917	151951	152167	152307	152308	152309	159464	159491	159494	159495	159501	159506	159509
152259	152545	152546	152547	152611	152612	152797	159531	159537	159550	159552	159554	159559	159571
152983	152994	153057	153207	153289	153528	153638	159572	159573	159574	159587	159590	159612	159613
153724	153765	154064	154125	154229	154237	154242	159627	159632	159652	159664	159667	159673	159675
154278	154324	154510	154551	154555	154558	154900	159682	159717	159718	159723	159732	159739	159740
155094	155132	155168	155365	155566	155571	155465	159743	159745	159748	159752	159755	159759	159760
155863	156071	156205	156250	156270	156273	156304	159762	159764	159791	159808	159810	159811	159813
156453	156480	156543	156729	156807	156814	156850	159817	159821	159823	159829	159837	159839	159843
156863	156883	156903	156904	156980	156999	157000	159845	159850	159864	159867	159871	159873	159874
157053	157079	157081	157092	157314	157386	157430	159876	159878	159879	159881	159905	159909	159910
157431	157449	157555	157648	157699	157706	157818	159927	159947	159964	160011	160038	160043	160044
							160057	160063	160064	160066	160078	160088	160098

160111	160141	160164	160169	160197	160364	160402
160693	160699	160700	160701	160829	160841	161627
161630.						

CESSATION OF PATENTS

143868	143870	143871	143872	143873	143876	143881
143888	143890	143892	143894	143895	143897	143900
143907	143910	143911	143918	143919	143920	143921
143922	143923	143924	143926	143929	143931	143935
143937	143938	143940	143941	143942	143944	143946
143948	143950	143951	153952	153955	143957	143962
143966	143974	143975	143976	143977	143979	143980
143981	143983	143984	143986	143990	143991	143993
143994	143997	143998	143999	144004	144005	144009
144011	144012	144013	144014	144015	144018	144020
144021	144022	144023	144025	144028	144029	144031
144032	144033	144037	144038	144039	144040	144044
144045	144048	144049	144050	144051	144052	144054
144055	144059	144063	144064	144065	144066	144067
144068	144070	144071	144072	144074	144079	144081
144084	144086	144089	144090	144091.		

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 159509. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor Cycle". 23rd March, 1988.

Class 1. No. 159511. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor Cycle". 23rd March, 1988.

Class 1. No. 159519. Purolator India Limited, 1, Sri Aurobindo Marg, New Delhi-110016, India, an Indian Company. "Filter". 24th March, 1988.

Class 1. Nos. 159540 & 159541. Madhusudan Joshi, of D-76, Gulmohar Park, New Delhi-110049, India, an Indian national. "Staple". 29th March, 1988.

Class 1. No. 159663. IBP. CO. LTD., (a Government of India Enterprise under the Indian Companies Act) at Gillander House, 8 Netaji Subhas Road, Calcutta-700 001, State of West Bengal, India. "High Vacuum Gate Valve". 3rd May, 1988.

Class 1. No. 159703. Kirit Sheth, Indian National, of 44 Mint Road, Fort, Bombay 400 001, State of Maharashtra, India. "Bottle". 16th May, 1988.

Class 1. No. 159708. Earl Bihari Private Limited, (a company incorporated under the Indian Companies Act) at 148-B, St. Cyril's Road, Bandra, Bombay-400 050, State of Maharashtra, India. "Multi Spanner". 16th May, 1988.

Class 1. No. 159706. Prakash Purshottam Deo, Indian National of Deoson Industries, 1 Geetanjali Apts, Plot No. 19, Off I.T.I. Road, Aundh, Pune-411 007, Maharashtra, India. "Contact Element". 16th May, 1988.

Class 1. No. 159707. Earl Bihari Private Limited, (a company incorporated under the Indian Companies Act) at 148-B, St. Cyril's Road, Bandra, Bombay-400 050, State of Maharashtra, India. "Window Friction Slide". 16th May, 1988.

Class 1. No. 159991. Baldev Murajmal Totlani, 7th Floor, Amore, 316, Perry Cross Road, Bombay-400 050. "Oil Pot". 27th July, 1988.

Class 3. No. 159510. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Motor-cycle". 23rd March, 1988.

Class 3. No. 159512. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Petrol Tank". 23rd March, 1988.

Class 3. No. 159513. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on side Cover". 23rd March, 1988.

Class 3. No. 159514. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Decal on Rear Cover". 23rd March, 1988.

Class 3. No. 159561. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Cistern". 4th April, 1988.

Class 3. No. 159562. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Flush Valve". 4th April, 1988.

Class 3. No. 159563. Tarachand Kheria, 3 Woodburn Road, Calcutta-700 020, West Bengal, India, an Indian national. "Float Valve". 4th April, 1988.

Class 3. No. 159594. Beecham Group P.L.C., a British company of Beecham House, Brentford, Middlesex TW8 9BD, England. a "Container". Reciprocity date is 28th November, 1987 (U.K.).

Class 3. No. 159595. Beecham Group P.L.C., a British company of Beecham House, Brentford, Middlesex TW8 9BD, England. a "Container". Reciprocity date is 28th November, 1987 (U.K.).

Class 3. No. 159677. Burns, Philip & Company Limited a Company incorporated under the laws of the State of New South Wales, Commonwealth of Australia, of 2-20 River Road West, Parramatta, New South Wales, 2150 Australia. a "Dispensing Machine". Reciprocity date is 12th November, 1987 (Australia).

Class 3. No. 159705. Prakash Purshottam Deo, Indian National of Deoson Industries, 1 Geetanjali Apts, Plot No. 19, off I.T.I. Road, Aundh, Pune-411 007, Maharashtra, India. "Circuit Breaker". 16th May, 1988.

Class 3. No. 159709. Concept Pharmaceuticals Private Limited, an Indian Company, at 167 C.S.T. Road, Santacruz (East), Bombay-400 098, State of Maharashtra, India. "Electronic Pain Reliever". 16th May, 1988.

Class 3. No. 159710. Harshad Sardesai and Satishchandra Soman both Indian Nationals of 2A Sushila Apartments, Nal Stop, Karve Road, District-Pune, Maharashtra State, India. "A device which indicates the exact time to replace air cleaner element". 16th May, 1988.

Class 3. No. 159751. Chandrakant Laljibhai Patel, Indian National, residing at 1/B, Laxmi Sadan, Ashok Nagar, Kandivli (East), Bombay-400 101, State of Maharashtra India. "Hexagonal Carom Board". 27th May, 1988.

Class 3. Nos. 159760 & 159762. Union Carbide India Limited, an Indian Company, 1 Middleton Street, Calcutta-700 071, West Bengal, India. "Cycle Lamp". 30th May, 1988.

Class 4. No. 159376. Advisory Board of Energy, a Government of India body of Saydar Patel Bhavan, Parliament Street, New Delhi-110001, India and Nimbkar Agricultural Research Institute a Registered Society of Paltan-415523, Dist. Satara, Maharashtra, India, "Mantle for Kerosene lamps". 5th February, 1988.

Class 4. Nos. 159700 to 159702. Kirit Sheth Indian National, of 44 Mint Road, Fort, Bombay-400 001, State of Maharashtra, India, "Bottle". 16th May, 1988.

Class 5. No. 159392. GTC Industries Limited, (an Indian Company at Tobacco House, Vile Parle, Bombay-400 056, State of Maharashtra, India. "Cigarette Packet". 12th February, 1988.

COMPLETE SPECIFICATION ACCEPTED

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ing one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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NUMBER INDEXES OF THE COMPLETE SPECIFICATION ACCEPTED DURING THE YEAR 1985 (Nos. from 155101 to 157020 including accepted specification Nos. 145326, 145534 etc.)

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1873/Cal/75

1894/Cal/75

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2011/Cal/75

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470/Del/81	156843	25/Cal/82
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480/Del/81	156845	28/Cal/82
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485/Del/81	156812	33/Cal/82
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489/Del/81	156813	40/Cal/82
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546/Del/81	156885	86/Cal/82
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553/Del/81	156904	94/Cal/82
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556/Del/81	156905	98/Cal/82
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565/Del/81	156907	102/Cal/82
567/Del/81	156816	104/Cal/82
568/Del/81	156908	110/Cal/82
574/Del/81	156909	111/Cal/82
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583/Del/81	157008	116/Cal/82
589/Del/81	157009	119/Cal/82
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592/Del/81	157011	122/Cal/82
595/Del/81	157012	123/Cal/82
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		271/Cal/82

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275/Cal/82	156488	429/Cal/82
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286/Cal/82	155118	442/Cal/82
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301/Cal/82	155853	462/Cal/82
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401/Cal/82	155689	547/Cal/82
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701/Cal/82	156991	867/Cal/82
704/Cal/82	156449	869/Cal/82
710/Cal/82	156923	870/Cal/82
711/Cal/82	156558	873/Cal/82
713/Cal/82	156466	877/Cal/82
719/Cal/82	156513	879/Cal/82
720/Cal/82	156804	881/Cal/82
721/Cal/82	156514	885/Cal/82
722/Cal/82	155645	886/Cal/82
723/Cal/82	156668	887/Cal/82
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726/Cal/82	156860	891/Cal/82
727/Cal/82	156697	894/Cal/82
728/Cal/82	156602	899/Cal/82
729/Cal/82	155695	903/Cal/82
730/Cal/82	156317	907/Cal/82
731/Cal/82	155120	913/Cal/82
733/Cal/82	156921	914/Cal/82
734/Cal/82	156017	917/Cal/82
741/Cal/82	156425	921/Cal/82
747/Cal/82	156532	922/Cal/82
751/Cal/82	155804	923/Cal/82
754/Cal/82	156827	924/Cal/82
755/Cal/82	156698	925/Cal/82
759/Cal/82	156725	926/Cal/82
761/Cal/82	156686	927/Cal/82
764/Cal/82	155693	928/Cal/82
765/Cal/82	156018	929/Cal/82
766/Cal/82	156246	930/Cal/82
773/Cal/82	155170	934/Cal/82
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782/Cal/82	155341	939/Cal/82
783/Cal/82	155238	940/Cal/82
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817/Cal/82	155488	966/Cal/82
818/Cal/82	156992	967/Cal/82
821/Cal/82	155496	975/Cal/82
824/Cal/82	156381	976/Cal/82
825/Cal/82	155972	977/Cal/82
828/Cal/82	156515	978/Cal/82
829/Cal/82	156486	980/Cal/82
830/Cal/82	156926	982/Cal/82
831/Cal/82	156478	984/Cal/82
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833/Cal/82	155431	989/Cal/82
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839/Cal/82	156669	999/Cal/82
840/Cal/82	156352	1000/Cal/82
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43/Mas/82	156707	19/Cal/83
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82/Mas/82	156332	54/Cal/83
83/Mas/82	155253	63/Cal/83
84/Mas/82	155815	64/Cal/83
87/Mas/82	156333	71/Cal/83
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59/Bom/83	156943	259/Bom/83
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		244/Bom/84
		320/Del/84

CLASS : 32 F₂(C) [IX(1)] + 55 E₂ XIX (1). 163721
Int. Cl. : C 12 P-13/04.

A PROCESS FOR THE PRODUCTION OF A NOVEL
ANTIBIOTIC FUMIFUNGIN FROM CULTURE NO.
HOECHST INDIA LIMITED Y-83,0405, ITS MUTANTS
AND VARIANTS.

Applicants : HOECHST INDIA LTD., HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

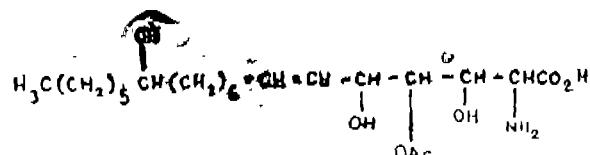
Inventors : (1) DR. TRIPTIKUMAR MUKHOPADHYAY, (2) DR. KIRITY ROY, (3) DR. BIMAL NARESH GANGULI, (4) DR. RICHARD HELMUT RUPP & (5) DR. HANS WOLFRAM FEHLHABER.

Application No. 152/Bom/1986 filed on May 22, 1986.
Complete after provisional left on 5th August, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

4 Claims

A process for the production of a novel antibiotic fumifungin of the Fig. I.



from fungal culture No. Hoechst India Limited Y-83, 0405 herein described or its mutants or variants, said process comprises cultivating said culture or its mutants or variants in a nutrient medium herein described under

3-317 GI/88

aerobic conditions at temperatures between 24°C to 30°C and pH between 6.0 to 8.0 for 66 to 96 hours and isolating and purifying the antibiotic from the culture broth in a manner such as herein described.

Compl. Specn. 13 pages.

Drg. Nil.

Prov. Spec. 12 pages.

Drg. 1 sheet.

CLASS : 32 E_n(d) [X(1)] + 55 E X[X(1)]. 163722

Int. Cl. : C 12 n-19/62.

A PROCESS FOR THE PRODUCTION OF SWALPA-MYCIN FROM STREPTOMYCES SPECIES CULTURE NUMBER HIL y-84, 30967 OR ITS MUTANT OR VARIANT

Applicant : HOECHST INDIA LIMITED, HOECHST HOUSE, NARIMAN POINT, 193, BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : (1) CHRISTOPHER MILTON MATHEW FRANCO, (2) JULIA GANDHI, (3) SUGATA CHATTERJEE, (4) GOUKANAPALLI CHANDRA SESHAKA REDDY, (5) BIMAL NARESH GANGULI, (6) RICHARD HELMUT RUPP, (7) HERBERT KOGLER AND (8) HANS WOLFARM FELHABER.

Application No. 160/Bom/1986 filed on May 30, 1986.

Complete after provisional left on March 6, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

7 Claims

A process for the production of a novel macrolide type antibiotic called swalpamycin of the formula

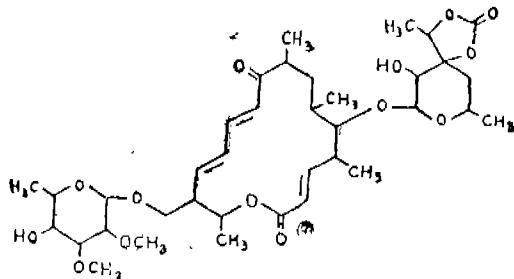


FIG 1.

from a new strain of microorganism called *Streptomyces* species culture number HIL Y-84, 30967 isolated from soil or its mutant or variant, said process comprises cultivating said microorganism or its mutant or variant by fermentation under aerobic conditions at a temperature between 18°C to 40°C and a pH between 6 to 9 in an aqueous nutrient medium herein described and recovering the swalpamycin from the culture broth in a known manner such as herein described.

Compl. Specn. 30 pages.
Provl. Specn. 29 pages.

Drg. Nil.
Drgs. 7 sheets.

CLASS : 170 B + D [XLIII (4)].
Int. Cl. : C 11 D-3/02, 3/22.

SILICATE-FREE DETERGENT GRANULES AND METHOD OF PREPARING SAME.

Applicant : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : 1. DAVIES JAMES FRANCIS, 2. LEE ROBERT STANLEY, 3. TRAVILL ANDREW WILLIAM, 4. WILLIAMS ROBERT JOSEPH PATON.

Application No. 138/Bom/86 filed on 5th May, 1986.

U. K. Convention Priority date (8511858) 10th May, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

5 Claims

1. Silicate-free detergent granules comprising at least :

- (i) at least 15% by weight of a water-insoluble particulate carbonate material which is a seed crystal for calcium carbonate, and which is selected from calcite, vaterite, aragonite and mixtures thereof;
- (ii) at least 2% by weight of a non-soap detergent active material which is a dispersant for the water-insoluble particulate carbonate material;
- (iii) at least 5% by weight of sugar as herein defined; said percentages being based on the total weight of ingredients (i), (ii) and (iii); and
- optionally (iv) at least 5% by weight of an alkali metal carbonates.

Compl. Specn. 31 pages.

Drg. Nil.

CLASS : 55 E 4 [XIX(1)] + 32 F 1 + 32 F 2b [IX(1)]
163724

Int. Cl. : CO 7 D-215/08, 215/32.

A PROCESS FOR THE PREPARATION OF THERAPEUTICALLY ACTIVE N-ACYL-1, 2, 3, 4-TETRAHYDRO-6-QUINOLINOL ESTERS.

Applicant : SEARLE (INDIA) LIMITED, OF RALLI HOUSE, 21 D, SUKHADWALA MARG, BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventors : KUPPUSWAMY NAGARAJAN, AND SHARADA JAGANNATH SHENOY.

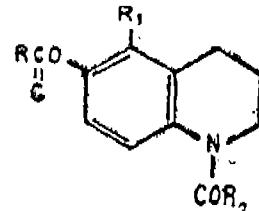
Application No. 64/Bom/86 filed February 19, 1986.

Complete after provisional left on 15th April, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

2 Claims.

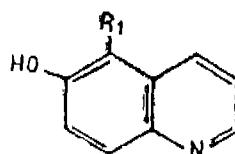
1. A process for the preparation of therapeutically active N-acyl-1, 2, 3, 4-tetrahydro-6-quinolinol esters of the formula I



FORMULA I

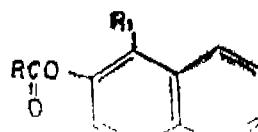
shown in the drawings accompanying the provisional specification wherein R is lower alkyl group such as methyl to hexyl, cycloalkyl group such as cyclohexyl or cyclopentyl, aryl group such as phenyl group optionally substituted by hydrogen or halogen atom, alkyl or alkoxy group, hetero-aryl group such as pyridyl, thiophenyl or furyl, R₁ is hydrogen, lower alkyl group such as methyl to hexyl or halogen atom such as chorine or bromine and R₂ is haloalkyl group such as chloromethyl, dichloromethyl or trichloromethyl, said process comprising :

(i) acylating 6-quinolinol of the formula II shown



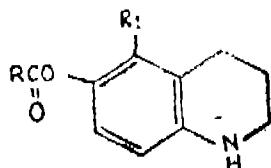
FORMULA II

in the drawings accompanying the provisional specification wherein R₁ is as defined above in an anhydrous non-polar medium such as chloroform or ethylene dichloride at a temperature between 0°C—80°C with an acylchloride of the formula RCOCl, wherein R is as defined above, and an acid acceptor such as tertiary amine such as triethyl amine under stirring, and isolating the resulting compound of the formula III



shown in the drawings accompanying the provisional specification wherein R and R₁ are as defined above from the reaction mixture in known manner such as herein described;

(ii) reducing the compound of the formula III by hydrogenation thereof in the presence of a noble metal catalyst such as palladium, platinum or nickel, an acid such as acetic acid or hydrochloric acid and an organic solvent such as alcohol such as methanol, or ethanol at 25—50°C and 50—55psi (pounds per square inch) under stirring, and isolating the resulting compound of the formula IV shown in the drawings



6

accompanying the provisional specification, wherein R and R₁ are as defined above from the reaction mixture in known manner such as herein described; and

(iii) acylating the compound of the formula IV in an anhydrous non-polar medium such as chloroform or ethylenedichloride at a temperature between 0°C—80°C with an acyl chloride of the formula R₂COCl, wherein R₂ is as defined above and acid acceptor such as tertiary amine such as triethyl amine under stirring and isolating the resulting compound of the formula I from the reaction mixture in known manner such as herein described.

Compl. Specn. 9 pages.

Drg. Nil.

Provl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 155 A [XXIII].

163725

Int. Cl. : D 21 D-3/00, D 21 H-1/40, 3/50.

A PROCESS FOR IMPREGNATING A PLANAR COMPRESSIBLE CARRIER MATERIAL WITH SYNTHETIC RESIN AND A DEVICE FOR CARRYING OUT THE SAID PROCESS.

Applicant : ISOVOLTA OSTERREICHISCHE ISOLIERSTOFFWERKS AKTIENGESELLSCHAFT, A-2351 WIENER NEUDORF, AUSTRIA.

Inventor : GERHARD MELCHER.

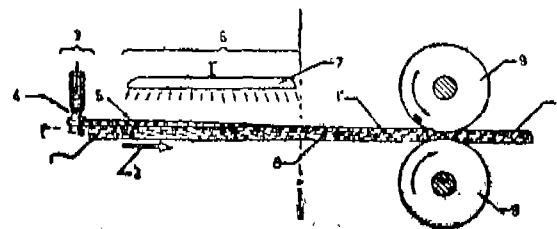
Application No. 370/Bom/85 filed on 31st December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

13 Claims

1. A process for impregnating a planar compressible carrier material (1), which has an air permeability according to Gurley in the range of 1.0 to 50 s, with synthetic resin to produce a stackable planar product wherein to begin with a liquid synthetic resin coating (5) with a synthetic resin content of 70 to 100% and/or with a viscosity at room temperature of 300 to 150,000 mPa.s is applied to one surface of the carrier material (1), whereupon the synthetic resin of the resin coating (5) which before and/or after this applied is raised to a higher temperature, due to this lowered viscosity at least partially penetrates into the carrier material (1), and wherein

the carrier material (1) to which synthetic resin (4) has thusly been applied is thereupon subjected to such mechanical pressure that the synthetic resin possibly still present as a surface coating penetrates into the carrier material and that the synthetic resin evenly permeates the carrier material.



Compl. Specn. 18 pages.

Drg. 1 sheet.

CLASS : 33 H, 108 B₂(b).

163726

Int. Cl. : C 21 C-1/00.

A METHOD FOR THE MANUFACTURE OF COMPACTED OR VERMICULAR GRAPHITE (CG) CAST IRON.

Applicant : TATA ENGINEERING & LOCOMOTIVE COMPANY LIMITED, OF BOMBAY HOUSE, 24, HOMI MODY STREET, BOMBAY-400 023, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor PRAKASH KRISHNARAO BASUTKAR.

Application No. 355/Bom/1985 filed on 23rd December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

14 Claims

A method for the manufacture of compacted or vermicular graphite (CG) cast iron comprising the following steps :

- (i) preparing a cast iron base metal containing 3-4% carbon, 0.05—1.0% manganese, 0.0025—0.15% phosphorus, 1.4—3.6% silicon and 0.01—0.035% sulphur, the rest being iron by heating at a temperature between 1450°C to 1520°C.
- (ii) determining the chemical composition of said melt, particularly its sulphur content in known manner such as herein described;
- (iii) simultaneously desulphurising and vermicularising said melt by introducing selected quantity of said melt in the third section or spout section of a Fischer converter and metallic magnesium in the end section of said converter such that the ratio of sulphur in the selected quantity of said melt and metallic magnesium is between 1.6 and 2.5 and allowing the selected quantity of said melt and metallic magnesium to react and form compacted or vermicular graphite cast iron in the middle section or body of said converter; and
- (iv) tapping the compacted or vermicular graphite cast iron from the middle section or body of said converter into a ladle or the like and stabilising the compacted or vermicular graphite cast iron by inoculating with 0.010 to 0.220% by weight of Mischiemtal.

Compl. Specn. 20 pages.

Drg. Nil.

CLASS 32 E + 48 D₁ + 136 E 163727
 Int Cl B 29 C-71/00, CO 8 J-7/04, 7/12, 7/16,
 HO 1 B-3/36, 3/40, 19/04

A PROCESS FOR THE MANUFACTURE OF MOULD ED PHENOL FORMALDEHYDE COMPONENTS HAVING IMPROV'D COMPARATIVE TRACKING INDEX (CTI) FOR ELECTRICAL APPLICATIONS

Applicant LARSEN & TOUBRO LIMITED OF L & T HOUSE, BALLARD ESTATE BOMBAY-400 038, MAHARASHTRA, INDIA

Inventor 1 VIJAY GANESH PETHE 2 ASHOK YASHWANT DIVKAR

Application No 339/Bom/85 filed on 16th December, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

4 Claims

1. A process for the manufacture of moulded phenol formaldehyde components such as herein described having improved CTI (comparative tracking index) for electrical applications, said process comprises .

- (i) cleaning the surface of the components in known manner such as herein described, if necessary;
- (ii) preheating the components at a temperature between 90—150°C.
- (iii) coating the preheated components with electric grades epoxy powder to a thickness of 50—85 μ using a spray gun or in a fluidised bed,
- (iv) curing the coated components at a temperature between 150°—160°C. and
- (v) cooling the cured components to ambient temperature by leaving them in the atmosphere

Compl Specn 9 pages Drg Nil

sorbitol solution thickened by a hydrated binder comprising a hydrated plant gum, and a water-insoluble particulate abrasive agent dispersed in the thickened liquid phase, wherein the process is characterised in that hydration of the plant gum is carried out by mixing under shear the plant gum with a liquid hydration medium consisting of water and 0 to 33% by weight of the liquid hydration medium of sorbitol, the mixing being carried out in the presence of such an amount of the particulate abrasive agent that sufficient shear is produced during the mixing of effect uniform hydration of the plant gum with the production of a smooth cream whereafter there is blended with the hydrated plant gum any remaining water and humectant, any remaining abrasive and other conventional ingredients, to produce the toothpaste

Compl Specn 20 pages

Drg 1 sheet

163729

Int Cl A 47 C-1/02, 1/024

AN IMPROVED REVOLVING CUM-TILT BACK CHAIR

Applicant & Inventor PRAMOD PANDURANG BHAT, JEEVANCHHAYA, 1228/A FERGUSSON COLLEGE ROAD, PUNE-411004, MAHARASHTRA, INDIA

Application No 360/Bom/1986 filed on 30th December, 1986

Complete after provisional left on 30th December, 1987.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

12 Claims

An improved revolving cum-tilt back chair comprising a fixed chair seat consisting of a seat plate with or without cushion and arm rests said seat plate having at its top a flat bar forming a seat bracket and having a revolving shaft integral with bottom centre and a hinge bracket at its rear end, said shaft provided with vertically extending slot on its one side for adjusting seat height from ground level within a collar having a wheel screw on its one side provided on top of a pedestal for engaging the said slot and a back rest hingeably mounted near its lower middle on said hinge bracket by a hinge pin in known manner and the bottom end of said back rest frame being in contact with rear end of a spring loaded adjustably mounted piston rod working within a pair of guide bushes provided on top of said seat bracket, said back rest frame being provided with or without a contoured plated or panel matching with the contour of spinal column/cord profile of a person seated on said chair, the arrangement being such that when a person presses his back against hingeably mounted back rest whereby it swings rearwardly on said hinge pin from 90° to 45° angle with respect to the plane of said fixed chair seat and said piston rod increases said spring tension while said chair seat remains fixed on said revolvable shaft on said pedestal and as soon as back pressure is released from said back rest which in turn attains its upright position and in the process the spinal column/cord of the person gets stretched thereby relieving the fatigue condition of said spinal column/cord of the person

Compl Specn 14 pages

Drg Nil

Prov Specn 9 pages

Drgs 4 sheets

CLASS 189 163728

Int Cl A 61 K-7/16

PROCFS FOR MAKING TOOTHPASTE

Applicants HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY 400 020, MAHARASHTRA, INDIA, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913

Inventors (1) RONALD HOYLES & (2) ANDREW ERIC WILDE

Application No 313/Bom/1986 filed on 12th November, 1986

UK Convention priority date (8528117) on November 14, 1985

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013

13 Claims

A process for making a toothpaste comprising an aqueous liquid humectant phase consisting essentially of an aqueous

CLASS : 32 F₂ (b) [IX (1)].

163730

Int. Cl. : C 12 P-17/02.

A PROCESS FOR THE PREPARATION OF A NOVEL ANTIBIOTIC ARANOROSIN FROM A FUNGAL CULTURE NUMBER Y-30, 499.

Applicants : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : 1. DR. KIRITY ROY, 2. DR. TRIPTI KUMAR MUKHOPADHYAY, 3. DR. GOUKANAPALLI CHANDRA SHEKHAR REDDY, 4. DR. ERRA KOTESWARA SATYA VIJAYAKUMAR, 5. DR. BIMAL NARESH GANGULI, 6. DR. RICHARD HELMUT RUPP, 7. DR. HANSWOLFARM FEHLHABER, 8. DR. HERBERT KOGLER.

Application No. 201/Bom/1987 filed on 30th June, 1987.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

6 Claims

1. A process for the production of a novel antibiotic Aranorosin of the formula shown in Fig. 1 of the accompanying drawings from a fungal culture No. Y-30, 499

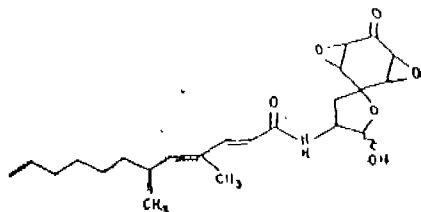


FIG. 1

herein described, said process comprises cultivating said fungal culture by fermentation under aerobic conditions in a nutrient medium containing carbon sources such as herein described, nitrogen sources such as herein described, nutrient inorganic salts such as herein described and trace elements such as herein described at a temperature between 24 to 30°C and pH between 6.0 to 8.0 for 66 to 90 hours and isolating and purifying the said antibiotic from the culture broth in known manner such as herein described.

Compl. Specn. 16 pages.

Drg. 1 sheet.

CLASS : 177-D.

163731

Int. Cl. : G 05 b 13/00.

COGENERATION ARRANGEMENTS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA, 15222, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD EDWARD PUTMAN, 2. KATHERINE ANNE GUNDERSEN, 3. JAMES CHARLES CHRISTENSON.

Application No. 748/Cal/84 filed on 26th October, 1984.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

In a cogeneration arrangement including at least one steam turbine supplied with steam at a higher throttle pressure, for generating steam at a lower extraction pressure and for exhausting steam at exhaust pressure while generating electrical power at an operating speed thereof, in accordance with a plant steam demand and a plant

power demand, the combination of : controls responsive to calculating circuitry for generating control signals in accordance with throttle flow and exhaust flow valves; and a control arrangement responsive to said control signals for providing a corresponding extraction flow and power generation, said calculation circuitry responsive to an indication of steam flow at said throttle pressure, to an indication of steam flow at said extraction pressure and to an indication of steam exhaust flow at the lowest pressure for determining said throttle flow valve and an extraction flow valve for which said steam and power demands are satisfied under a minimum exhaust flow of steam.

Compl. Specn. 63 pages.

Drgs. 18 sheets.

CLASS : 65-B₂.

163732

Int. Cl. : H 01 f 5/06.

A METHOD OF CONSTRUCTING AN ELECTRICAL WINDING INSULATED WITH SOLID RESINOUS INSULATION.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

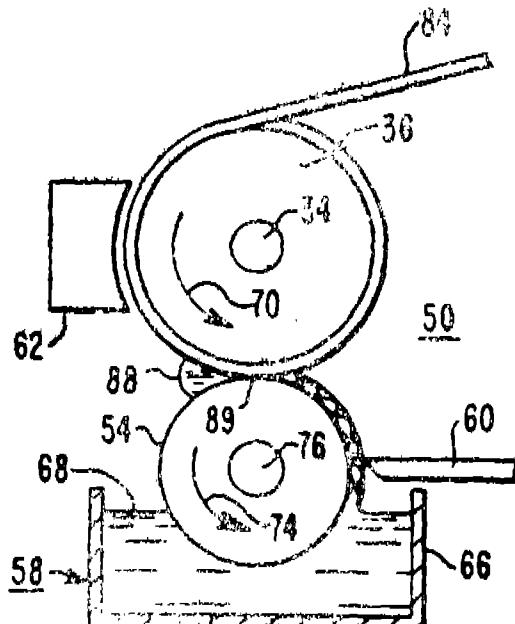
Inventors : 1. DEAN CONKLIN WESTERVELT, 2. THOMAS MERLE BURKE.

Application No. 885/Cal/84 filed on 27th December,

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A method of constructing an electrical winding insulated with solid resinous insulation, comprising the steps of : forming conductor turns (90) on a first substrate (98), said forming step characterized by the step of wet winding a conductor (80) upon said substrate, said wet winding step substantially immersing each conductor turn in liquid resinous insulation (68), forming a liquid resinous interface between each conductor turn and said first substrate to provide a void-free liquid intermediate insulative structure (92), and building solid insulation, layer upon layer (102, 110), on the conductor turns and first substrate from the liquid resinous insulation, during the step of forming conductor turns, said building step including the step of controlling the thickness of said layers of solid insulation to eliminate shrinkage voids and preserve the void-free aspect of the liquid intermediate insulative structure, with said solid insulation, as it is formed, providing a second substrate upon which subsequent conductor turns may be formed.



Compl. Specn. 29 pages.

Drgs. 3 sheets.

CLASS : 129-G.

163733

Int. Cl. : F 16 h 21/00.

A MACHINE TOOL TRANSFER DRIVE AND A MACHINE TOOL INCLUDING SAME.

Applicant : THE CROSS COMPANY, OF FRAZER, MICHIGAN, U. S. A.

Inventor : 1. HORST LUDWIG ROMAN.

Application No. 63/Cal/85 filed on 31st January, 1985.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A machine tool transfer drive (10) for moving two separate members (74, 72) simultaneously but different distances relative to a frame (24), said transfer drive (10) comprising :

single screw (22) rotatably supported by said frame; power means (12) connected to rotate said screw;

a first nut (32) in threaded engagement with said screw (22);

a first movable member (34) coupled to said first nut (32) for movement with said first nut (32) along said screw (22);

a second nut (40) in threaded engagement with said screw (22);

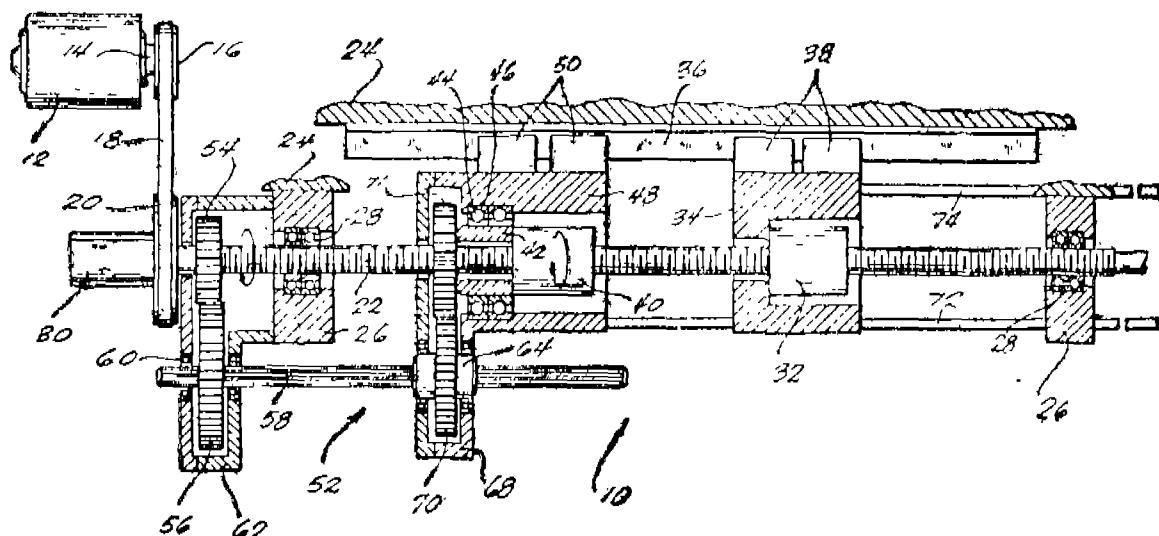
means (42, 44) for mounting said second nut for rotation relative to said screw;

a second movable member (48) coupled to said second nut (40) for movement with said second nut (40) along said screw (22); and

drive means (52) connected to rotate said second nut (40) while said screw (22) is being rotated so that said second nut (40) and said second movable member (48) will move at a different rate of travel and a different distance along said screw (22) than said first nut (32) and said first movable member (34).

Compl. Specn. 26 pages.

Drgs. 3 sheets.

CLASS : 2-B₃; 168-F.

163734

Int. Cl. : B 42 d 15/02.

ENGRAVED IDENTIFICATION CARD AND METHOD OF MAKING THE SAME.

Applicant : COMPUTER IDENTIFICATION SYSTEMS INC., OF 3840 ROSIN COURT, SACRAMENTO, CALIFORNIA 95834, U. S. A.

Inventor : 1. BARRY C. PHELPS.

Application No. 227/Cal/85 filed on 27th March, 1985.

Appropriate office for opposition proceedings, (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

A method for making an engraved identification card comprising :

sputter depositing a first metallic layer onto a planar surface of an electrically non-conductive substrate; and

forming an image by engraving parallel grooves through said metallic layer into said substrate with a taper-

ing styles and varying the depth of the groove to thereby vary the width of the metal covered surface between adjacent grooves.

Compl. Specn. 21 pages.

Drg. 1 sheet.

CLASS : 140-A₂.

163735

Int. Cl. : C 10 m 3/32.

A METHOD FOR PREPARING IMPROVED SULFUR-BASED ADDITIVES FOR LUBRICANTS AND FUNCTIONAL FLUIDS CONTAINING LABITE SULFUR.

Applicant : THE LUBRIZOL CORPORATION 29400 LAKELAND BLVD. WICKLIFFE OHIO 44092, U.S.A.

Inventors : 1. THOMAS FRIER STECKED, 2. THOMAS ROBERT HOPKINS.

Application No. 272/Cal/85 filed on 10th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

<p>22 Claims</p> <p>A method for preparing improved sulfur-based additives for lubricating and functional fluids, which method comprises contacting a sulfur-based additive containing labile-sulfur :</p> <ol style="list-style-type: none"> (1) with copper in its elemental state, or (2) with a copper compound, or (3) with a copper and another material reactive with said labile-sulfur such as herein described; <p>wherein the copper or copper compound is present in an amount of 0.01 to 5% by weight based on the additive and at a temperature of from 100–250°C to thereby substantially eliminate the detrimental metal corrosivity and the detrimental degradation of elastomer materials exhibited by said labile-sulfur containing additive.</p> <p>Compl. specn. 38 pages.</p>	<p>Int. Cl. : F 15 b 5/00</p> <p>POWER SERVO CONTROL SYSTEMS.</p> <p>Applicant : VICKERS, INCORPORATED, 1401, CROOKS ROAD, TROY, MICHIGAN 48084, U.S.A.</p> <p>Inventors : 1. YEHIA MOHAMED EL IBIARY, 2. RICHARD SCOTT LEEMHULS.</p> <p>Application No. 426/Cal/86 filed June 6, 1986.</p> <p>Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.</p>	<p>163737</p>
<p>11 Claims</p> <p>A power servo control system which includes actuator means (12) adapted to variably actuate a load, said actuator means (12) having a predetermined first polynomial transfer function having a plurality of first constants (α, B_1, B_2) in the sampled-data domain related to dynamic behavior characteristics at said actuator means, and sampled-data servo control means (22) including means (24) for receiving common signal (R), sensor means (14) responsive to said actuator means for providing a sensor signal (Y) as a function of actuation at said actuator means, and means (34) for providing an error signal to control said actuator means as a combined function of said command signal (R) and said sensor signal (Y) to obtain a preselected response characteristic at said actuator means, characterized in that said means for providing said error signal comprises :</p>	<p>means (26) for periodically sampling said sensor signal to provide a sampled sensor signal [Y(Z)];</p>	
<p>means (28) receiving said sampled sensor signal [Y(Z)] and having a preselected second transfer function coordinated with said first transfer function to obtain said preselected response characteristics, said second transfer function in the sampled-data domain being a polynomial having a number of second constants (G_1, G_2, G_3) which vary as functions of said first constant (α, B_1, B_2),</p>	<p>first means (36, 40 or 44) for estimating said first constants;</p>	
<p>said means (38) responsive to said means (36, 40 or 44) and coupled to said feedback compensation means (28) for calculating said second constants (G_1, G_2, G_3) as a function of estimated first constants; and</p>	<p>means (24, 30) responsive to said feedback compensation means (28) and to said command signal (R) to provide said error signal [E(Z)].</p>	
<p>Compl. specn. 20 pages.</p>	<p>Drg. 4 sheets</p>	
<p>CLASS : 33-D & E</p> <p>Int. Cl. : B 22 c 15/00, 17/00, 19/00.</p> <p>METHOD OF AND APPARATUS FOR MANUFACTURING FOUNDRY MOLDS.</p> <p>Applicant & Inventor : LIETMAR BOENISCH, OF EMMI-WELTER-STRASSE 8, D-5100 AACHEN, FEDERAL REPUBLIC OF GERMANY.</p> <p>Application No. 244/Cal/86 filed March 25, 1986.</p> <p>Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.</p> <p>57 Claims</p> <p>A method of manufacturing a foundry mold, especially for compacting foundry molding material, comprising the steps of ;</p> <p>infeeding a preselected foundry molding material into mold frame means containing a molding frame which defines an interior space and which is provided with pattern means supporting at least one mold pattern, and further containing a filling frame defining an interior space, in order to thereby fill a remaining portion of the interior space of the molding frame which is not filled by the at least one mold pattern and a predetermined portion of the interior space of said filling frame with such preselected foundry molding material;</p> <p>compacting said foundry molding material infed into said mold frame means in order to thereby displace a predetermined portion of said foundry molding material present in said filling frame from said filling frame into said molding frame in order to thereby form the foundry mold;</p> <p>during said step of compacting said foundry molding material, infeeding into and expanding a preselected gas in predetermined local regions of said foundry molding material during the time such foundry molding material is being compacted in order to thereby produce said predetermined local regions which possess a reduced packing density of said foundry molding material; and</p> <p>after the step of infeeding and expanding said preselected gas and during the course of said compacting operation, essentially eliminating said predetermined local regions of reduced packing density and which predetermined local regions are formed as a result of infeeding and expanding said preselected gas; and</p> <p>during said step of eliminating said predetermined local regions of reduced packing density, increasing the packing density of said predetermined local regions essentially to a packing density prevailing in remaining regions of said foundry molding material.</p> <p>Compl. specn. 80 pages.</p>	<p>163736</p>	
<p>CLASS :</p> <p>Int. Cl. : C 09 c 1/36.</p> <p>PEARL LUSTRE PIGMENTS STABLE TO GLAZE AND ENAMEL.</p> <p>Applicant : MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, 6100 DARMSTADT 1, FRANKFURTER STR. 250, FEDERAL REPUBLIC OF GERMANY.</p> <p>Inventors : 1. DR. AXEL RAU, 2. DR. KLAUS AM-BROSIUS, 3. DR. KLAUS-DIETER FRANZ.</p> <p>Application No. 604/Cal/86 filed August 7, 1986.</p> <p>Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.</p>	<p>163738</p>	

3 Claims

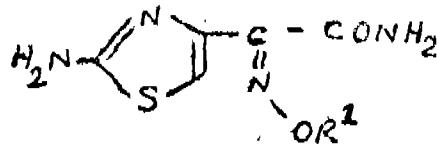
Process for the preparation of pearl lustre pigments which are based on mica flakes coated with metal oxides, in particular titanium dioxide, and which have an improved stability in glazes and enamels, wherein at least once a solution of a tin and/or cerium salt is added to an aqueous suspension of an annealed or non-annealed mica flake pigment coated with one or more metal oxides, the pH value of the suspension being kept largely constant, by simultaneous addition of a base, within a range which effects hydrolysis of the salt added, and the pigment coated in this manner with tin dioxide and/or cerium dioxide is separated off, washed, if appropriate, and dried, and is then calcined.

Compl. specn. 8 pages

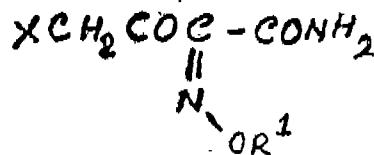
Drg. Nil

2 Claims

A process for producing a novel intermediate for cephalosporin represented by the formula (II) of the accompanying drawings,



wherein R¹ is a lower alkyl group, which comprises reacting a compound represented by the formula (IV) of the accompanying drawings,



CLASS :

163739

Int. Cl. : C 23 f 11/02.

NITROGEN SHROUDING ARRANGEMENT ATTACHED WITH T-STOP SLIDE GATE VALVE SYSTEM.

Applicant & Inventor : SIBABRATA KAR, RESEARCH & DEVELOPMENT DIVISION, THE TATA IRON AND STEEL COMPANY LIMITED, JAMESHPUR, BIHAR, INDIA.

Application No. 745/Cal/86 filed October 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A device for shrouding a molten or liquid metal stream flowing out of a ladle through a slide gate valve, comprising a casing upper portion which is of oval shape which can be fixed to the slide gate valve, and a lower cylindrical portion and a plurality of nozzles for passing nitrogen around the molten metal stream.

Compl. specn. 6 pages.

Drg. 2 sheets

CLASS : 32-F₁ + 32-F₂ b + 55-E₄,

163740

A PROCESS FOR PRODUCING A NOVEL INTERMEDIATE FOR CEPHALOSPORINS.

Applicant : TOYAMA CHEMICAL CO. LTD., OF 2-5, 3-CHOME, NISHISHIN-JUKU, SHINJUKU-KU, TOKYO, JAPAN.

Inventors : 1. HIROYUKI IMAIZUMI, 2. TAKIJIRO INABA, 3. SHISHI MORITA, 4. TYUKO TAKENO, 5. YOSHIHARU MUROTANI, 6. HIROHIKO FUKUDA, 7. JUNICHI YOSHIDA, 8. KIYOSHI TANAKA, 9. SHUN-TARO TAKANO, 10. ISAMU SAIKAWA.

Application No. 515/Cal/87 filed July 3, 1987.

Division of application No. 701/Cal/84 dated 29th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

CLASS : 13-A; 155-F₂

163741

Int. Cl. : B 65 d 65/40.

POLYMERIC STRUCTURE HAVING IMPROVED BARRIER PROPERTIES AND METHOD OF MAKING SAME.

Applicant: AMERICAN NATIONAL CAN COMPANY, OF 8770 WEST BRYN MAWR AVENUE, CHICAGO, ILLINOIS 60631, U.S.A.

Inventors : 1. CHRISTOPHER J. FARRELL, 2. BOH TSAI, 3. JAMES A. WACHTEL.

Application No. 699/Cal/84 filed September 28, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

Improvement in or modification of the method of increasing the oxygen resistance of barrier film of a multilayer polymeric laminate material as claimed in Parent Indian Patent Specification No. 155103 dated 8th April, 1981 comprising heating the barrier film at a temperature of from 210° to 250°F in the presence of moisture for example a humid environment.

Compl. specn. 15 pages.

Drg. Nil

CLASS : 80-C

163742

Int. Cl. : B 01 d 25/12.

FILTER PRESS.

Applicant & Inventors : (1) GEORGY MIKHAILOVICH KOCHKIN, OF KHARKOV, ULITSA 23, AUGUSTA, 29, KV 161, USSR; (2) ALEXANDR FEDOROVICH PICHAKHCHI, OF KHARKOV, PLOSCHAD, NARIMANOVA, 6, KV. 132, USSR; (3) SERGEI PETROVICH SALOMATIN, OF KHARKOV, PROSPEKT POBEDY, 70, KV. 352, USSR.

Application No. 28/Cal/85 filed January 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A filter press comprising :

a set of filter plates disposed between thrust and pressure plates;

braces connecting the thrust plate with a means for clamping the filter plates;

said filter plates being adapted to be displaced when desired;

a means for removing filter cake having toothed rakes capable of moving vertically with the teeth thereof pointing upwards;

said teeth of the toothed rake being capable of engaging the side projections in the filter plates engageable with the teeth of the toothed racks, characterised in that the length of the toothed racks at least equals the length of travel of one filter plate;

the filter press being provided with additional racks arranged under the toothed racks and pivotably connected thereto by bars;

the toothed racks also having pivotable spring-loaded stop elements;

the additional racks being capable of horizontal displacement and arranged on longitudinal guides provided with limit stops cooperating with the ends of the additional racks.

Compl. specn. 9 pages

Drg. 4 sheets

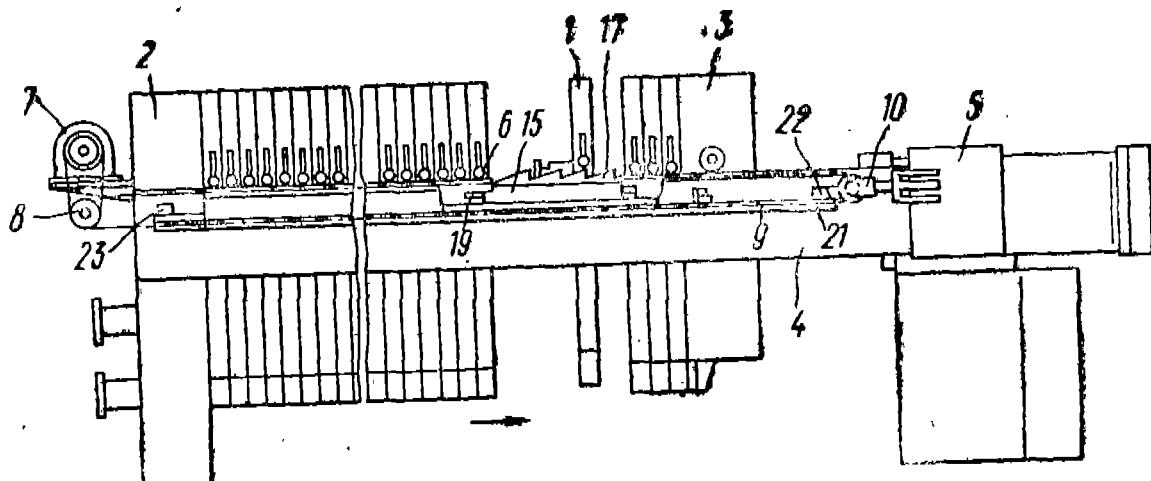


FIG. 1

CLASS : 123

163743

163744

Int. Cl. : C 05 c 1/00, 13/00.

CLASS : 206-E

Int. Cl. : G 05 b 15/00.

IMPROVED NITROGENOUS FERTILIZER COMPOSITIONS IN PRILL FORM AND METHOD FOR THE MANUFACTURE THEREOF.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventors : 1. DHIRENDRA NATH BHATTACHARYA, 2. SUBRAMANIA IYER KRISHNAN.

Application No. 344/Cal/85 filed May 3, 1985.

Compl. specn. left on 31st July, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

An improved nitrogenous fertilizer composition in prill form which comprises a nitrogen-containing fertilizer compound of the kind described herein in combination with from 3% to 10% by weight of one or more substantially water-insoluble hydrophobic materials of the kind described herein and from 5% to 30% by weight of a nitrification inhibiting agent of the kind described herein.

Compl. specn. 34 pages.

Drg. Nil

4-317GI/88

ARRANGEMENT FOR CONTROLLING A PLURALITY OF SUB PROCESSES IN A DISTRIBUTED CONTROL SYSTEM.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, U. S. A.

Inventor : 1. JACK ASHER SCHUSS.

Application No. 402/Cal/85 filed May 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

1. In a distributed control system of the type having a plurality of process control computer corresponding in number to the number of subprocesses controlled by the distributed control system, an arrangement for controlling a plurality of subprocesses upon the failure of a process control computer controlling one of the subprocesses, the arrangement comprising :

(a) means provided with each process control computer in the distributed control system for receiving input signals of operational parameters of an associated first subprocess of the distributed control system;

- (b) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the input signals;
- (c) means provided with each process control computer for generating in response to the input signals and in accordance with the preprogrammed instructions, control signals to control the first subprocess;
- (d) means provided with each process control computer in the distributed control system for receiving input signals commensurate with the operational safety of the associated first subprocess;
- (e) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the operational safety of the associated first subprocess input signals;
- (f) means provided with each process control computer for generating in response to the input signals commensurate with the operational safety of the associated first subprocess and in accordance with the preprogrammed instructions, control signals for shutting down the associated first subprocess when an unsafe operating condition is approached;
- (g) means provided with each process control computer in the distributed control system for receiving input signals of operational parameters commensurate with the operational safety of a second subprocess of the distributed control system;
- (h) means provided with each process control computer in the distributed control system for executing a preprogrammed set of instructions based upon the operational system of the second subprocess input signals;
- (i) means provided with each process control computer in the distributed control system for generating in response to the input signals commensurate with the operational safety of the second subprocess and in accordance with the preprogrammed instructions, control signals for shutting down the second subprocess when an unsafe operating condition is approached;
- (j) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions to control a third subprocess;
- (k) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions for shutting down the third subprocess when an unsafe operating condition is approached;
- (l) means provided with each process control computer in the distributed control system for executing a spare preprogrammed set of instructions for shutting down a fourth subprocess when an unsafe operation condition is approached;
- (m) means provided with each process control computer in the distributed control system for receiving input signals for the spare preprogrammed instructions of sets (j)—(l) from input ports with no inputs attached thereto;
- (n) means provided for each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions and in accordance with the spare preprogrammed instructions control signals for controlling the third subprocess;
- (o) means provided with each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions and in accordance with the spare preprogrammed instructions control signals for shutting down the third subprocess when an unsafe operating condition is approached;

- (p) means provided with each process control computer in the distributed control system for generating in response to the input signals for the spare preprogrammed instructions control signals for shutting down the fourth subprocess when an unsafe operating condition is approached;
- (q) means for detecting the removal from service of one of the process control computers of the distributed control system controlling a subprocess;
- (r) means for switching the input and output connections from the process control computer of the distributed control system that has been removed from service to another process control computer of the distributed control system that has not been removed from service, upon detecting the removal from service of one of the process control computers; and
- (s) means for controlling the subprocess formerly controlled by the process control computer removed from service with the process control computer to which the input and output connections are switched.

Compl. specn. 34 pages.

Drg. 4 sheets

163745

Int. Cl. : G 08 c 19/20.

POSITION TRANSMITTER FOR A PNEUMATIC-PNEUMATIC OR ELECTRO-PNEUMATIC CONVERTER.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : 1. JANE ELLEN SMITH. 2. RAYMOND JACK SAMPSON.

Application No. 413/Cal/85 filed May 31, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A control system comprising :

- an electro-pneumatic converter (71) having pneumatic means for providing a variable pneumatic signal;
- a power supply (10);
- a system controller (14) connected to the power supply (10) and connected to the electro-pneumatic converter (71) for controlling the converter; and
- a position transmitter (8) connected to a movable member (24) for generating a signal corresponding to the position of the movable member (24), the system being characterised in that :

the system comprises an actuator device (22), said movable member (24) being movable member of the actuator device;

an input line (12) of the position transmitter (8) is connected to one terminal of the power supply (10);

an output line (16) of the position transmitter is connected to another terminal of the power supply (10) via the system controller (14), which has resistive load (R LOAD);

the electro-pneumatic converter (71) is connected to receive power from the system controller (14) and is connected to apply said variable pneumatic signal to the actuator device (22) for controlling the actuator device; and

the position transmitter (8) comprises :

voltage divider means (30, 44, 46) connected between the input and output lines (12, 16) and having a movable contact (28) mechanically engaged or engageable with the movable member (24) of the actuator device (22) for carrying a voltage which varies with motion of the movable member (24).

a zero adjust amplifier (50) having an input connected to the movable contact (28) for receiving the voltage carried by the movable contact, the zero adjust amplifier (50) having an output and being connected to influence a current on the output line (16), and the zero adjust amplifier (50) also having an adjustable input, the movable contact (28) being movable to a zero position corresponding to a zero position of the movable member (24) and the adjustable input being adjusted or adjustable to apply a low selected current signal to the output line (16) which is indicative of a zero position of the movable member (24),

a span adjust amplifier (54) having an input connected to an output of the zero adjust amplifier (50), the span adjust amplifier (54) having an output and being connected to influence a current on the output line (16), the span adjust amplifier (54) also having an adjustable input, the movable contact (28) being movable to a maximum position corresponding to a maximum position of the movable member (24) and the adjustable input of the span adjust amplifier (54) being adjusted or adjustable to apply a high selected current signal to the output line (16) which is indicative of the maximum position of the movable member (24), and

a voltage-to-current stage (58, 60) connected between the input and output lines (12, 16) and connected to the output of the span adjust amplifier (54) for converting a voltage signal from the span adjust amplifier (54) to a current signal on the output line (16).

Compl. specn. 17 pages.

Drgs. 2 sheets

CLASS : 130-F & G.

163746

Int. Cl. : B 01 d 15/00.

METHOD FOR REDUCING A METAL ADSORBED ON AN CHELATING AGENT.

Applicant : SUMITOMO CHEMICAL COMPANY LIMITED, OF 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Inventors : 1. YUSHIN KATAOKA, 2. MASAAKI MATSUDA, 3. MASAHIRO AOI.

Application No. 554/Cal/85 filed 29th July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

In a method for recovering a metal, which is selected from the group consisting of indium, gallium, palladium, germanium, uranium, gold and platinum, adsorbed on a chelating agent, which has in the molecule at least one of the functional groups selected from the group consisting of $=NOH$, $=P(OR)_2$, $=PO(OR)_2$, $=PH(OR)_3$, $=N(R)_2-N+(R)_2$ (where each of R's which may be the same or different represents a hydrogen, a phenyl group, an alkyl group or an alkoxy group) and their metal salts, with an eluent, the improvement comprising using as the eluent an aqueous solution containing both (1) a water soluble inorganic sulfide, and (2) at least one of the basic compound selected from the group consisting of inorganic alkaline compounds and water soluble organic amines.

Compl. specn. 27 pages.

Drgs. Nil

163747

Int. Cl. : H 01 f 37/00.

VALVE CHOKE, FOR USE IN HIGH VOLTAGE DIRECT CURRENT TRANSMISSION SYSTEMS.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF WITTESBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : 1. REINHOLD SUNDERMANN, 2. PAUL KUKERT, 3. TIBOR SALANKI.

Application No. 583/Cal/86 filed July 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A valve choke, for use in high voltage direct current transmission systems, the choke comprising a choke coil and a choke core, wherein :

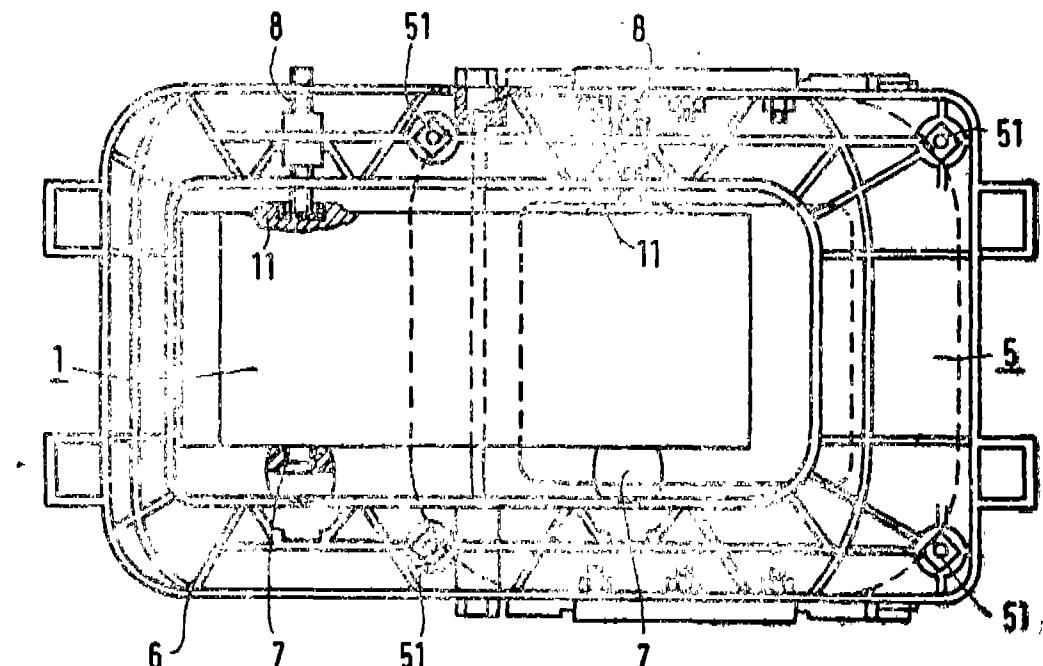
the choke coil is arranged, in a self-contained manner, spaced from a leg of the choke core, in a tension frame;

the choke coil is sealed in a block, and the sealed block is mounted by receiving means in the tension frame; and

the choke core consists of two U-shaped cores and is held in the tension frame by securing means.

Compl. specn. 8 pages.

Drgs. 2 sheets



CLASS :

163748

Int. Cl. : H 01 h 73/04.

A MULTIPOL LOW-VOLTAGE CIRCUIT-BREAKER.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF
WITTELSBACHERPLATZ 2, D-8000 MUNCHEN 2, WEST
GERMANY.

Inventors : 1. GUNTER PRIETZEL, 2. GEORG SPRENGER,
3. REINHARD KUGLER.

Application No. 796/Cal/86 filed October 31, 1986.

Appropriate office for opposition proceedings (Rule 4,
Patent Rules, 1972) Patent Office, Calcutta.

9 Claims

A multipole low-voltage circuit-breaker having a first row of conductor bars connected to input contacts of the circuit-breaker and a second row of conductor bars connected to output contacts of the circuit-breaker, the two rows being parallel to one another and at right angles to two opposite side walls of a housing of the circuit-breaker, there being input connecting bars and output connecting bars which serve to connect the conductor bars to external fixed conductors not aligned with the conductor bars, the input connecting bars being held by a common insulating support and the output connecting bars being held by another common insulating support, the ends of these insulating supports being held to the housing of the circuit-breaker.

Compl. specn. 12 pages.

Draws. 2 sheets

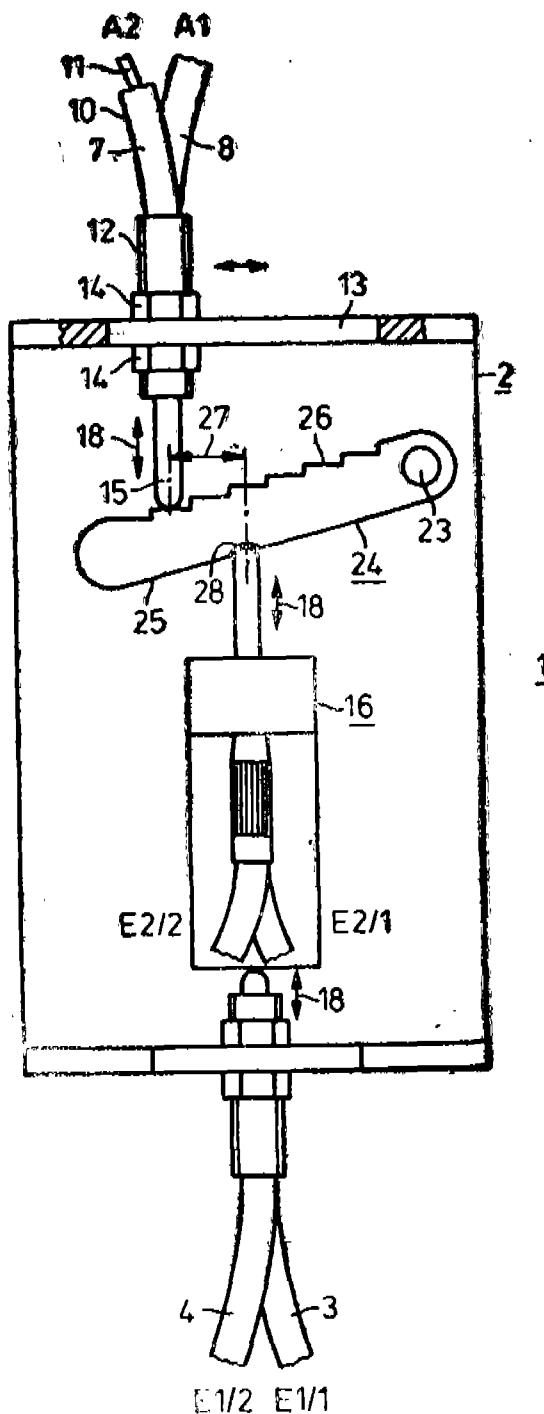


FIG 1

CLASS :

163749

tant, the said container being provided with :

Int. Cl. : F 17 c 1/00.

IMPROVEMENTS IN OR RELATING TO CONTAINERS OR VESSELS FOR STORAGE, TRANSPORTATION AND/OR USE OF FLUIDS.

Applicant & Inventors : TEJENDRA GARG, AT 6/1, BELVEDERS ROAD, CALCUTTA-700027, WEST BENGAL, INDIA AND DR. AMARJYOTI BASU AT 43 ROYD PARK, CALCUTTA-700034, WEST BENGAL, INDIA.

Application No. 861/Cal/86 filed November 28, 1986.

Complete Specn. left on 26th February, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

An improved container or vessel for storage, transportation and/or use of fluid materials from which container the said fluid material may be withdrawn by using an inert eject-

(i) means for introducing the said fluid material inside the container.

(ii) means for introducing the inert ejectant,

(iii) means for withdrawing the said fluid material from inside the container,

(iv) means for preventing flow of fluid material from inside the container to outside on its own or due to leakage on the downstream side,

(v) means for preventing entry of any extraneous material(s) into the container, and, if desired,

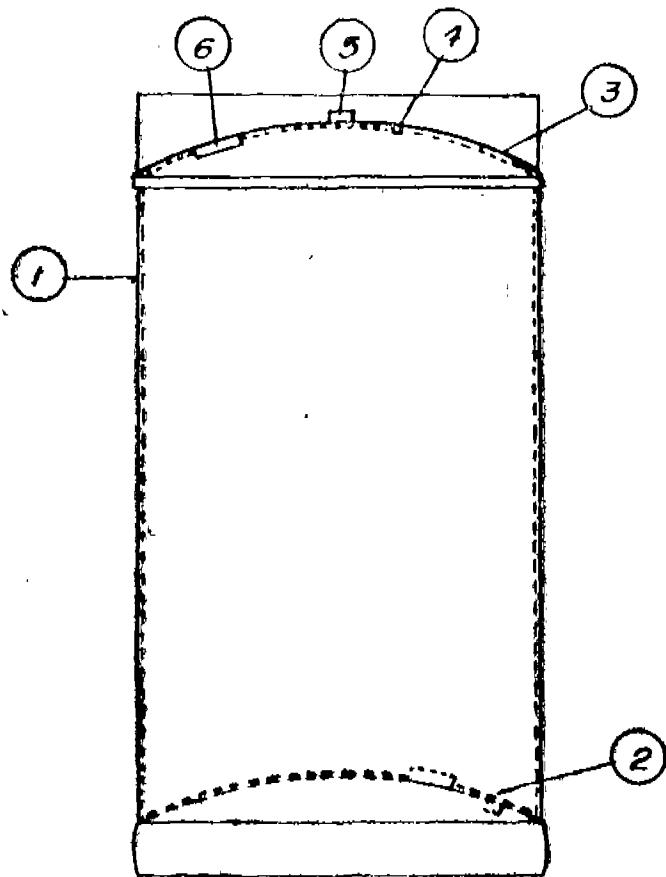
(vi) safety means for preventing any pressure build-up inside the said container above and beyond a pre-determined limit.

Provisional specn. 8 pages.

Drg. 1 sheet

Compl. specn. 11 pages.

Drg. Nil



CLASS : 32-F₁ + 32-F₂b + 55-D₂.

163750

Int. Cl. : C 07 d 31/06, 31/20 31/26; A 01 n 9/00.

A METHOD FOR PREPARING 2-CHLORO-OR BROMO 5-METHYL-PYRIDINE.

Applicant : ICI AMERICAS INC., OF NEW MURPHY ROAD AND CONCORD PIKE, WILMINGTON, STATE OF DELAWARE, U. S. A.

Inventors : 1. LUDWIG ALBERT HARTMANN, 2. JOHN FERGUS STEPHEN.

Application No. 109/Cal/87 filed February 9, 1987.

Division of application No. 1200/Cal/83 dated 29th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for preparing a 2-chloro- or 2-bromo-5-methyl-pyridine of formula I of the accompanying drawings



I

wherein X is Cl or Br comprising the steps of oxidizing 5-methyl-3, 4-dehydro-2-(1H) pyridone to produce 2-hydroxy-5-methyl pyridine by

- dihalogenating 5-methyl-3, 4-dihydro 2(1H) pyridone with a halogenating agent to produce a 5-methyl 5, 6-dihalo-3, 4-dihydro-2 (1H) pyridone and
- dehydrohalogenating said 5-methyl-5, 6-dihalo-3, 4-dihydro-2 (1H) pyridone to produce 2-hydroxy-5-methyl pyridine and thereafter halogenating this product as hereinbefore described.

Compl. specn. 32 pages.

Drwg. 1 sheet

Int. Cl.4 : C 01 B 33/26.

163751

PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant : MOBIL OIL CORPORATION CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

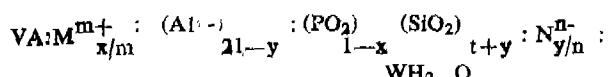
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS
(3) ERNEST WILLIAM VALYOCSEK

Application No. 188/Ma/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-10 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table-1+A of the specification and has the composition :

wherein M is cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of form greater than -1 to less than +1 which satisfy the relationships :

- if x is 0, then y is not ,
- if y is 0, then x is not ,
- if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.901 and y+0.6x is less than 0.4 and
- if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and +0.5y is less than 0.5 comprising the steps of :

(i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, and organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being : (A)_a : (M₂O)_b : (Al₂O₃)_c :



wherein A and M are as defined above a, b, c, d, e f, g, and h are numbers satisfying the relationships a/(c+d+e) is less than 1, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;

(ii) heating the said mixture at a rate of 5°C to 20 °C per hour to a temperature from 30°C to 300°C;

(iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

2222

(iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed;

(v) recovering from said reaction mixture said crystals in a conventional manner.

The compound prepared according to this invention is useful as a catalyst in catalytic conversion of organic compounds and exhibit ion-exchange properties.

(Com. 22 pages; Drwgs. 1 sheet.

Int. Cl.4 : C 01 B 3/40

163752

METHOD FOR REFORMING HYDROCARBONS.

Applicant : KABUSHIKI KAISHA KOBE SEIKO SHO ALSO KNOWN AS KOBE STEEL LTD., A JAPANESE CORPORATION, OF 3-18, WAKINHOMA-CHO 1-CHOME, CHUO-KU, KOBE 651 JAPAN.

Inventor(s) : KEI UTSUNOMIYA KATSUNORI SHIMASAKI MAMORU AOKI.

Application No. 6/Mas/85 filed on January 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office Branch, Madras.

2 Claims

A method for reforming hydrocarbons into hydrogen, carbon monoxide or a mixture thereof with a reforming agent consisting of at least one member selected from the group of steam, carbon dioxide and oxygen characterised in that supplying a raw material gas comprising the hydrocarbons, the reforming agent and a sulfur compound as herein described to a reformer furnace, temperature at the outlet of which is adjusted at a level above 850°C, wherein the concentration of said sulfur compound in the gaseous mixture is 3—20 ppm.

These gases are very useful as a starting material for the synthesis of ammonia, methanol and the like. These gases are used as a reducing gas in the direct reduction process.

Compl. specn. 18 pages.

Drg. Nil

CLASS :

163753

Int. Cl. : A 23 C 11/00.

A PROCESS FOR PREPARING A POWER-FORM COMPOSITION FOR A COFFEE BEVERAGE.

Applicant : SOCIETE DES PRODUITS NESTLE S. A., OF P. O. BOX 353, 1800 VENEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : THEO WALTER KUYPERS.

Applcation No. 93/Mas/85 filed 4 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

2 Claims

A process for preparing a powder-form composition for a coffee beverage which comprises forming a suspension of 0.2 to 28% by weight of fats, 5 to 16% by weight of proteins 16 to 62% by weight of lactose and up to 60% by weight of other carbohydrates, wherein the ratio of weight of proteins to lactose is from 1:3.5 to 1:5 and heating said suspension, concentrated by evaporation to have a solids content of from 46 to 60%, dried by spraying and then post-dried, adding soluble coffee or soluble coffee substitute and further dried, wherein an inert gas is introduced under low pressure into the concentrate, the gas and the concentrate are mixed, the gasified concentrate is highly compressed and then injected through a nozzle into a spray-drying tower where it is dried by spraying into a stream of hot air consisting of a plurality of turbulent component streams.

Compl. specn. 12 pages.

Drg. Nil

CLASS :

163754

Int. Cl. : B 23 C 5/14.

AN IMPROVED MILLING INSERT.

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, TUMKUR ROAD, BANGALORE 560 073, KARNATAKA, INDIA.

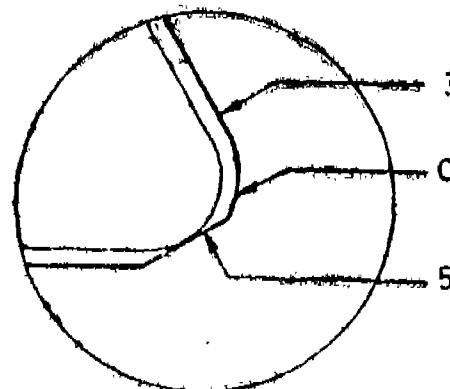
Inventor : AMITAVA SHYAM CHOUDHURY, RANGARAJAN SRINIVASAN.

Applcation No. 73/Mas/1986 filed 3 February 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

2 Claims

An improved milling insert comprising a major cutting edge, a cutting corner and a wiper edge characterised in that the cutting corner has a smooth curvilinear profile of a mean radius substantially in the range 1 mm to 8 mm.



Compl. specn. 5 pages.

Drg. 1 sheet

Int. Cl. : C 07 D 211/05.

163755

PROCESS FOR PRODUCING N-[3-(1-PIPERIDINYL-METHYL)-PHENOXY] PROPYL ACETOXYACETAMIDE HYDROCHLORIDE.

Applicant : TEIKOKU HORMONE MFG. CO., LTD., A JAPANESE BODY CORPORATE OF 5-1 2-CHOME, AKASAKA, MINATO-KU, TOKYO, JAPAN.

Inventors : (1) KENYU SHIBATA
 (2) TOSHIHISA ITAYA
 (3) NOBUAKI YAMAKOSHI
 (4) SHIGERU KURATA
 (5) NAOYUKI KOIZUMI

Application No. 517/Mas/86 filed July 15, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

An improved process for producing N-[3-(1-piperidinyl-methyl) phenoxy] propyl acetoxyacetamide hydrochloride which comprises reacting N-[3-(1-piperidinylmethyl) phenoxy] propyl hydroxy-acetamide oxalate with acetic anhydride and without isolating the resulting N-[3-(1-piperidinylmethyl)-phenoxy] propyl acetoxyacetamide treating the reaction mixture with 0.95 to 1.0 mole, per mole of the oxalate, of hydroxyl chloride or a lower alkanoyl chloride, and thereafter isolating the resulting N-[3-(1-piperidinyl-methyl) phenoxy] propyl acetoxyacetamide hydrochloride in a known manner.

(Com. - 10 pages; Drawgs. - 1 sheet)

CLASS :

163756

Int. Cl. : A 61 L 9/01.

163756

METHOD OF PRODUCING DEODORANTS.

Applicant : DAINIPPON INK AND CHEMICALS, INC., A JAPANESE BODY CORPORATE, OF 35-58, 3-CHOME, SAKASHITA, ITABASHI-KU TOKYO, JAPAN.

Inventor : NOBUO KOBAYASHI, AZUMA KAWAZOE.

Application No. 582/Mas/86 filed 22 July 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

3 Claims

A method of producing a deodorant which comprises mixing as essential components (I) a water-soluble organic polymer having average molecular weight of at least 100,000 and containing at least one group selected from the class consisting of a carboxyl group and its ammonium salt, ammonium/alkali metal mixed salts and alkanolamine salts, sulfoalkyl groups, a sulfonic acid group, a phosphoric acid group, and a phosphoric acid group and their alkali metal salts, ammonium salts, alkanolamine salts and alkali metal/ammonium/alkanolamine mixed salts; and cationic groups, and/or a quaternary ammonium compound of the polymer, and (II) an aqueous medium such as herein described wherein the concentration of the water soluble organic polymer and/or it quaternary ammonium compound being 0.05 to 50 ppm.

Compl. specn. 46 pages.

Drg. Nil

CLASS : 163757

Int. Cl. : A 23 C 11/00.

A METHOD OF PREPARING A STABLE, DRY PROTEIN-FREE COFFEE WHITENER.

Applicant : SOCIETE DES PRODUITS NESTLE S. A. CASE POSTALE 353, VEVEY, SWITZERLAND. A COMPANY INCORPORATED IN SWITZERLAND.

Inventor(s) : MARK A. EINERSON, KHA TRAN.

Application No. 586/Mas/1986 filed on July 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

6 Claims

A method of preparing a stable, dry protein-free coffee whitener which comprises :

forming an emulsion concentrate by mixing together a major proportion of carbohydrate such as herein described, a liquified fat such as herein described, a water soluble film-forming hydrocolloid and water, the weight ratio of hydrocolloid to fat being 0.04:1 to 0.7:1,

homogenizing in a known manner the concentrate to provide an emulsion of fat particles in water, with the fat particles being encapsulated with said hydrocolloid, and

spray drying the emulsion concentrate to a moisture content of no more than 5%.

Compl. specn. 17 pages.

Drg. Nil

CLASS : 163758

Int. Cl. : C 07 K 7/11

A METHOD FOR MANUFACTURING A PEPTIDE.

Applicant : THE SALK INSTITUTE FOR BIOLOGICAL STUDIES, A NOT-FOR-PROFIT CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF CALIFORNIA, UNITED STATES OF AMERICA, ONE NORTH TORREY PINES ROAD, LA JOLLA, CALIFORNIA 92037, UNITED STATES OF AMERICA.

Inventors : (1) EMIL THOMAS KAISER
(2) GONUL VELICELEBI

Application No. 593/Mas/86 filed July 24, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims. No drawing.

A method for manufacturing a peptide having the Formula (I) :

$R_1-R_2-R_3-Ala-R_5-R_6-R_7-R_8-R_9-R_{10}-R_{11}-R_{12}-R_{13}-Leu-R_{15}-Gln-Leu-R_{18}-R_{19}-R_{20}-R_{21}-Leu-Leu-Gln-Glu-R_{26}-R_{27}-R_{28}-Arg-Y$ wherein R_1 is Tyr, D-Tyr, Met, Phe, D-Phe, Leu, His or D-His, which has either a CaMe or NaMe substitution or is unsubstituted; R_2 is Ala or D-Ala; R_3 is Asp or D-Asp; R_5 is Ile or Leu; R_6 is Phe or Tyr; R_7 is Ser or Thr; R_8 is Ser, Asn, Thr or Gln; R_9 is Ala or Ser; R_{10} is Tyr, Phe or Leu; R_{11} is Arg, Orn or Lys; R_{12} is Arg, Orn or Lys; R_{13} is Ile, Leu, Phe or Val; R_{15} is Gly or Ala; R_{18} is Ala or Ser; R_{19} is Ser or Ala; R_{20} is Arg, Orn or Lys; R_{21} is Arg, Orn or Lys; R_{26} is Leu, Ile, Val or Phe; R_{27} is Nle, Nva or a natural amino acid; R_{28} is Ala, Leu, Asn, Gln, or Ser; and Y is OH or NH_2 ; provided however that at least four of the residues constituting R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , R_{12} , R_{13} , R_{15} , R_{18} , R_{19} , R_{20} , R_{21} and R_{26} are different from the residues appearing in that respective position in native hGRF, comprising the steps of (a) joining individually protected amino acids or short peptide segments to form a peptide intermediate having at least one protective group and the formula (II):

$X^1-R_1(X \text{ or } X^2)-R_2-R_3(\text{---})^3-Ala-R_5-R_6(X^2)-R_7(X^4)-R_8(X^4 \text{ or } X^5)-R_9(X^4)-R_{10}(X^2)-R_{11}(X^6 \text{ or } X^7)-R_{12}(X^6 \text{ or } X^7)-R_{13}-Leu-R_{15}-Gln(X^5)-Leu-R_{18}(X^2)-R_{19}(X^4)-R_{20}-X^6 \text{ or } X^7)-R_{21}(X^6 \text{ or } X^7)-Leu-Leu-Gln(X^5)-Glu(X^3)-R_{26}-R_{27}(X^8)-R_{28}(X^4 \text{ or } X^5)-Arg(X^6)-X^9$

wherein: X , X^1 , X^2 , X^3 , X^4 , X^5 , X^6 , X^7 , and X^8 are each either hydrogen or a protective group and X^9 is either a protective group or an anchoring bond to resin support des- X^9 ; (b) splitting off the protective group or groups of anchoring bond from said peptide of the Formula (II) by treatment with HF and one or more scavengers, such as aniosole and methylethylsulfide; and (c) if desired, converting a resulting peptide into a nontoxic salt thereof by treatment with concentrated acetic acid or the like.

The peptides produced according to this invention promote the release of growth hormone by the pituitary gland in humans and other animals.

(Com. - 32 pages)

CLASS :

163759

Int. Cl. : A 61 K 35/78.

A PROCESS FOR PREPARING CAROB FLOUR WITH DEPURATIVE AND ANTI-DIARRHOEIC ACTIVITY.

Applicant : SOCIETE DES PRODUITS NESTLE S. A. CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : PIERRE WURSCH.

Application No. 614/Mas/1986 filed on July 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for preparing carob flour with depurative and anti-diarrhoeic activity which comprises heat-treating ripe carob pods with water at a temperature not exceeding 98°C to extract most of the sugars and water-soluble tannins, separating the residue, drying it at a temperature not exceeding 100°C and then grinding it into particles 200 mm or less in diameter.

Compl. specn. 15 pages.

Drg. Nil

CLASS : 163760
Int. Cl. : A 01 N 59/02.

A METHOD FOR FORMING A HERBICIDAL COMPOSITION COMPRISING A SULFURIC ACID ADDUCT OF GLYPHOSATE.

Applicant : UNION OIL COMPANY OF CALIFORNIA, A CORPORATION OF THE STATE OF CALIFORNIA, U. S. A., OF 461, SOUTH BOYLSTON STREET, LOS ANGELES, CALIFORNIA 90017, U. S. A.

Inventor : DONALD CHRISTOPHER YOUNG.

Application No. 628/Mas. 86 filed August 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

A method for forming a herbicidal composition comprising a sulfuric acid adduct of glyphosate, which method comprises reacting sulfuric acid and glyphosate under conditions sufficient to form said adduct, wherein the glyphosate/H₂SO₄ molar ratio is within the range of 0.1 to 10.

The composition prepared according to this invention is a systemic herbicide and can be used to control vegetation.

Compl. specn. 28 pages.

Drg. Nil

CLASS : 62-B & C₂.

163761

Int. Cl. : D 06 p 7/68.

A PROCESS AND A DEVICE FOR THE CONTINUOUS DYEING AND/OR FINISHING OF WET TEXTILE WEBS.

Applicant : HOECHST AKTIENGESELLSCHAFT, OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. HANS-ULRICH VON DER ELTZ, 2. PETER OPPITZ.

Application No. 517/Cal/83 filed April 28, 1983.

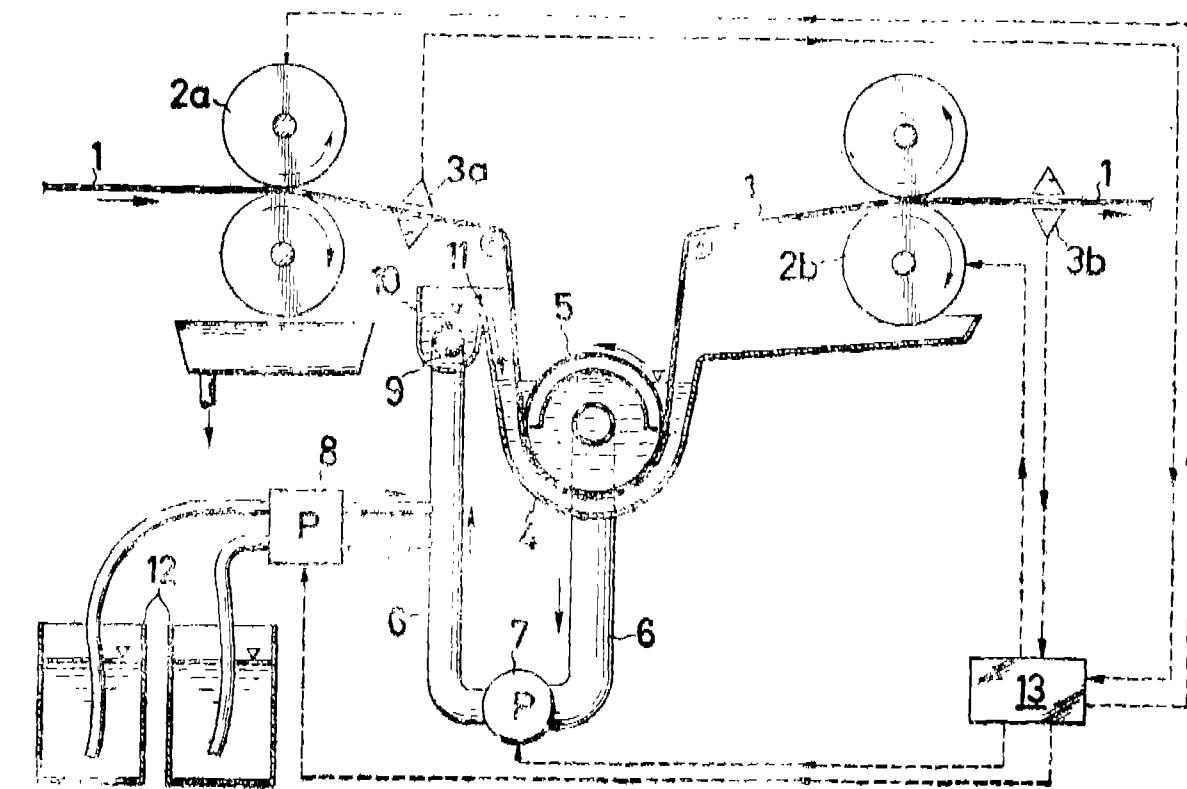
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A process for applying in a continuous and level manner aqueous impregnating liquors which contain at least one treatment agent to water-wet textile webs which, wet from a preceding wet-treatment, have been uniformly part-dewatered down to a certain residual moisture content, the webs' moisture content being constantly measured, in a contact-free manner along, as well as transverse, the path of the textile goods, by a piece of equipment which comprises more than two measuring positions across the width of the web before the liquor is applied and by another such measuring arrangement after the liquor has been applied, and in agreement with the measured values, the moisture content after a second dewatering being adjusted to be higher than that after the first dewatering, which comprises passing the continuously moving moist web, immersed in an impregnating through below the surface of the liquid, in open width over a liquor exchange unit and continuously applying the liquor evenly over the width of the web by partly or completely replacing the moisture already present on the textile material by sucking or pressing a circulating impregnating liquor through the web as well as, at the same time, ensuring that the particular predetermined quantity of impregnating liquor is absorbed by the web, whereupon the reduction in concentration of treatment agent in the liquor, due to the liquor being diluted and the decrease in liquor volume, due to excessive absorption of liquor by the textile material, are compensated for by spent/consumed circulation liquor being strengthened or filled up by metering, into the bath, freshly prepared liquor replenishments as a function of the measured difference in liquor after the first and second dewatering.

Compl. specn. 26 pages.

Drg. 1 sheet



CLASS : 129-Q.

163762

Int. Cl. : B 23 k 35/00.

ELECTRODE FOR ELECTRIC ARC-SURFACING.

Applicant : KIEVSKY POLITEKHNIKESKY INSTITUT IMENI 50-LETIA VELIKOI OKTYABRSKOI SOT-SIALISTICHESKOI REVOLJUTSIII, OF KIEV, BREST-LITOVSKY PROSPEKT, 39, USSR.

Inventors : 1. NIKOLAI ANTONOVICH GORPENJUK, 2. SEMEN BORISOVICH KOZLOV, 3. VLADIMIR SEMENOVICH BOGACHEV, 4. VALENTIN NIKOLAEVICH GORPENJUK, 5. BORIS NIKOLAEVICH GORPENJUK.

Application No. 101/Cal/85 filed on 12th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An electrode for electric arc surfacing consisting of a low-carbon steel bar and a coating containing marble fluorite, ferromolybdenum, ferrovanadium, ferrotitanium, ferrosilicon, ferromanganese, ferrochromium, and graphite and having the following composition, % by weight :

Marble	30—40
Fluorite	20—30
Ferromolybdenum	8—12
Ferrovanadium	4—6
Ferrotitanium	6—10
Ferrosilicon	4—8
Ferromanganese	2—5
Ferrochromium	8—12
Graphite	0.5—1.0.

Compl. Specn. 15 pages.

Drgs. Nil.

CLASS : 81.

163763

Int. Cl. : H 01 1 15/00.

A FLAME DETECTOR.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010, COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U. S. A.

Inventors : 1. RICHARD CURTIS CIAMMACHELLA, 2. BARRY JEFFREY YOUNMANS.

Application No. 121/Cal/85 filed on 21st February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A flame detector comprising :

light collection means for collecting electromagnetic radiation from a flame source and having an optical axis;

filter means lying on said optical axis for receiving electromagnetic radiation collected by said light collection means and for passing only that portion of the electromagnetic radiation which differs between flame off and flame on conditions;

a solid state photocell, made of GaAsP semiconductor material, lying on said optical axis and positioned for receiving said portion of the electromagnetic radiation passed by said filter means, said photocell being sensitive to said portion of electromagnetic

radiation to and thus to generate a sensed light signal indicative of one of the flame on and the flame off condition for the flame source; and

circuit means connected to said photocell for producing one of a flame on and a flame off signal when said photocell generates said sensed light signal.

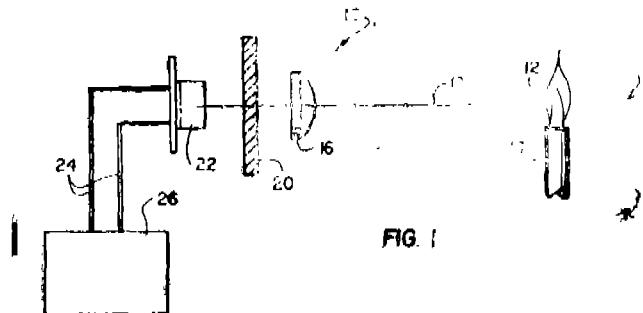


FIG. 1

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 158-E₃.

163764

Int. Cl. : B 60 g 25/00.

IMPROVEMENTS IN OR RELATING TO SUSPENSION ARRANGEMENT FOR BOGIE FRAMES OF FREIGHT CAR BOGIES.

Applicant : BHARTIA ELECTRIC STEEL COMPANY LIMITED, 7B & C POONAM 5/2 RUSSEL STREET, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventor : 1. ANAN THANARAYANAN KRISHNAMURTHY BALASUBRAMANYAN.

Application No. 150/Cal/85 filed on 28th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

Improvements in or relating to suspension arrangement for bogie frames of freight car bogies having secondary suspension in side frames, characterized by the improvement wherein additional primary suspension means is provided in the said bogie frame, said primary suspension means being located above each of the wheel axles adjacent to said secondary suspension means, the side frame, housing the said secondary suspension means, being provided with a hat-like structure in place of conventional box frame one on its either end, said hat-like structure having a housings located at the vertical axis of each of the wheel axles end and adapted to house the primary suspension means, the said primary suspension means being made up of resilient material such as coil-spring or rubber sandwich spring.

Compl. Specn. 24 pages.

Drgs. 3 sheets.

CLASS : 172-C₁.

163765

Int. Cl. : D 01 g 15/12.

A FIXTURE FOR PNEUMATIC CHARGING OF A NUMBER OF CARDS BY MEANS OF THE RESERVE SHAFTS CONNECTED IN SERIES INDIVIDUAL CARD.

Applicant : TRUTZSCHLER GMBH & CO. KG., OF DUVENSTR. 82-92 D-4050 MONCHENGLADBACH 3, FEDERAL REPUBLIC OF GERMANY.

Inventor : FERDINAND LEIFELD.

Application No. 717/Cal/85 filed on 10th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A fixture for pneumatic charging of a number of cards by means of the reserve shafts connected in series before individual card (9), the reserve shafts being connected with a common pneumatic conveyor line (6) and the charging shafts being connected afterwards to those, whereby the conveyor line (6) is connected with the fibre processing machine connected before in series over a material conveyor fan, e.g. fine opener, wherein the conveyor line (6) which is dependent on batch specific data or on the number of cards (8) under processing operation is provided for adjusting the volume of air and/or speed of the air, and control equipment (9) and/or with the locking equipments (11a to 11d) are at the head of each reserve shaft (7).

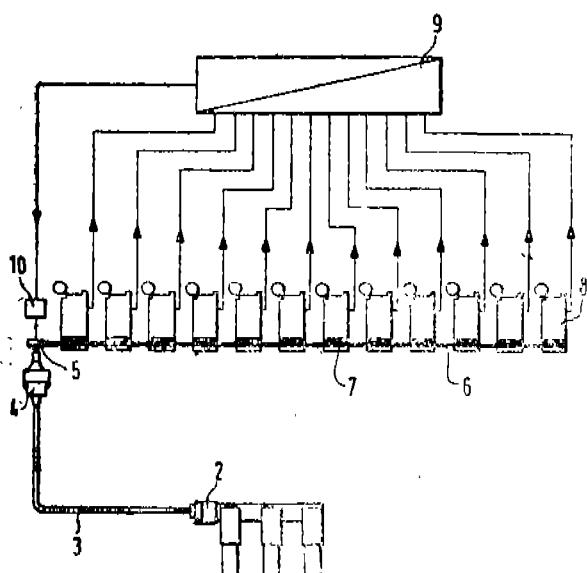


Fig. 1a

Compl. Specn. 16 pages.

Drgs. 6 sheets.

CLASS : 70-A; 107-G.

163766

Int. Cl. : B 01 k 1/00.

AN ENGINE ASSEMBLY.

Applicant & Inventor : IORWERTH THOMAS, OF 37 MEDWAY ROAD, WILKIN ESTATE, BROWNHILLS, WEST MIDLANDS, ENGLAND WS8 7JY.

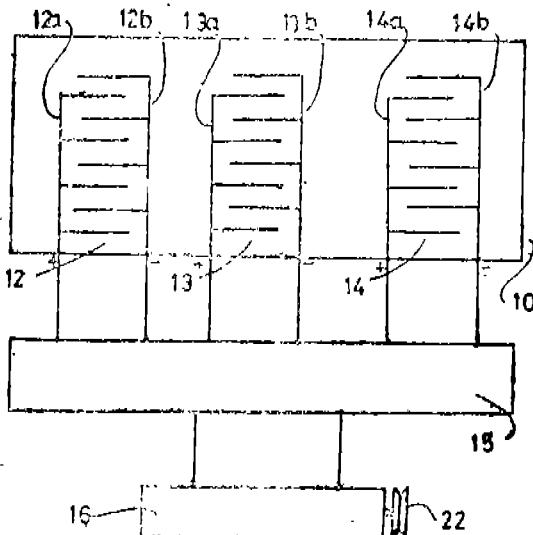
Application No. 937/Cal/85 filed on 30th December, 1985.

Convention dated 3rd January, 1985 (8500064) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An engine assembly comprising an engine, a fuel container for the engine, an electrolysis unit, an electrical supply for the electrolysis unit, and a mixing chamber in which gas generated by the electrolysis unit can be mixed with fuel from the fuel container prior to combustion in the engine, the electrolytic chamber containing a first and second sets of electrodes, each set comprising a cathode and an anode, and the sets being separately connected to the electrical supply.



Compl. Specn. 9 pages.

Drgs. 1 sheet.

CLASS : 6-A.

163767

Int. Cl. : F 02 m 23/00.

A 47 1 7/06.

AIR FILTER.

Applicant : PIPERCROSS LIMITED, OF NENDEX HOUSE, ROSS ROAD, WEEDON INDUSTRIAL ESTATE, NORTHAMPTON NN5 5AX, ENGLAND.

Inventors : 1. BARRY SPICER, 2. JOSEPH THOMAS WILIS.

Application No. 90/Cal/86 filed on 7th February, 1986.

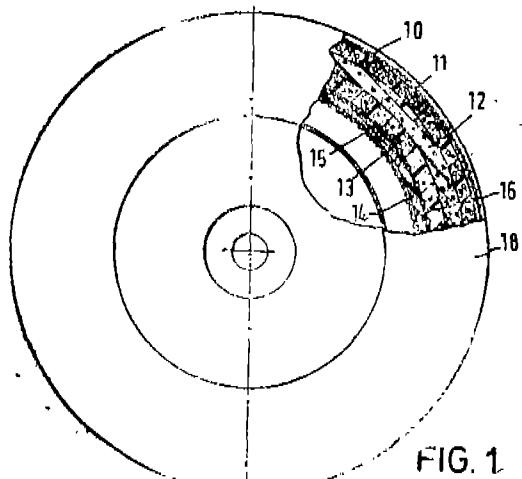
Convention dated 29th May, 1985 and 13th January, 1986 (8513540 and 8600720) both are U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

An air filter which comprises first and second layers of reticulated foam plastics material bonded together face-to-face with an open mesh substrate disposed between these two layers at their bonded interface, the two layers being impregnated with a dust-retaining substance, the

first layer having pores of at least as large as the pores of the second layer and the filter being arranged with the first layer upstream of the second layer (with respect to the flow of air through the filter).



Compl. Specn. 15 pages.

Drgs. 3 sheets.

FIG. 1

Inventors : 1. WILLIAM CLYDE MILLER, 2. LEONARD ELMO OLDS.

Application No. 366/Cal/86 filed on 14th May, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A low shrinkage refractory fiber having a composition containing alumina, silica, and zirconia made from a composition comprising in present by weight :

at least 72% of a clay selected from the groups generally designated as 1 : 1 dioctahedral phyllosilicates of the composition $Al_2Si_2O_5(OH)_4$; and 1.28% zircon.

Compl. Specn. 9 pages.

Drg. Nil.

CLASS : 158-A, D & E₁.

163768

Int. Cl. : B 60 b 17/00.

UNDERFLOOR WHEEL SET TURNING MACHINE FOR REPROFILING WHEEL TYPE CONTOURS OF RAILWAY WHEELSETS.

Applicant : HOESCH MASCHINENFABRIK DEUTSCHLAND AG OF BORSIGSTRASSE 22, 4600 DORTMUND 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DIPL. ING. UWE GUTOHRLEIN, 2. DIPL. ING. DIRK BRINKMANN.

Application No. 227/Cal/86 filed on 20th March, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Underfloor wheelset turning machine for reprofiling the wheel tyre contours of railway wheelsets comprising two driven friction roller pairs each adapted to be pressed against a wheel tyre contour of a wheelset, the friction rollers of each friction roller pair being individually connected in each case to a pivot drive and each pivotal about a pivot axis arranged parallel to the wheelset axle, characterized in that each pivot drive (13, 14, 15, 16) comprises a pneumatic bellows cylinder (76, 77, 78, 79) for producing the pivot movement and that in each case two pivot drives (13, 14, 15, 16) associated with a friction roller pair (11, 12) are coupled to a synchronizing means (80, 81).

Compl. Specn. 8 pages.

Drgs. 7 sheets.

CLASS : 35-E.

163769

Int. Cl. : C 04 b 35/00.

LOW SHRINKAGE KAOLIN REFRACTORY FIBER AND METHOD FOR MAKING SAME.

Applicant : MANVILIE CORPORATION, P. O. BOX 5108, PATENT DEPT., DENVER, COLORADO 80217, U. S. A.

CLASS : 40-A₁.

163770

Int. Cl. : B 01 j 19/00.

REACTOR FOR HYDROGENATION OF PETROLEUM DISTILLATES IN FIXED BED CATALYST.

Applicants : (1) VIKTOR GRIGORIEVICH SOLOVIEW, OF MOSKOVASKAYA OBLAST, LJUBERTSY, ULITSA 8 MARTA, 26, KORPUS I, KV. 8, USSR (2) ALEXEI IVANOVICH VASEIKO, OF MOSCOW, ULITSA ADADEMIKA PAVLOVA, 42, KV. 27, USSR; (3) VITALY EGROVICH FEDOTOV, OF PERM, PROSPEKT MIRA 66 KORPUS "V" KV. 60, USSR; (4) VLADIMIR MIKHAILOVICH KURGANOV, OF MOSCOW, RYAZANSKY PROSPEKT, 91, KORPUS I, KV. 3/5, USSR; (5) NIKOLAI IVANOVICH TEREKHOV, OF MOSCOW, SAMARKANDSKY BULVAR, 9, KORPUS I, KV. 59, USSR; (6) GENNADY NIKOLAEVICH CHERNOVISOV, OF MOSCOW, ULITSA KAKHOVKA, 22, KORPUS 5, KV. 365, USSR; (7) NIKOLAI VASILIEVICH RYZHKOV, OF PERM, ULITSA ODOEVSKOGO, 25, KV. 37, USSR.

Application No. 459/Cal/86 filed on 20th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A reactor for hydrogenation of petroleum distillates in a fixed-bed catalyst with straight-through upflow of reagents, comprising :

a cylinder-shaped shell having a bottom end-plate and a top end-plate and filled with a catalyst;
an inlet-connection for reagents provided in the bottom end-plate;

an outlet connection for the hydrogenation reaction products;

a header for collection of the products of the hydrogenation reaction;

said header being connected to the aforesaid outlet connection and made as a number of horizontal perforated pipes provided with nozzles and secured on a vertical pipe;

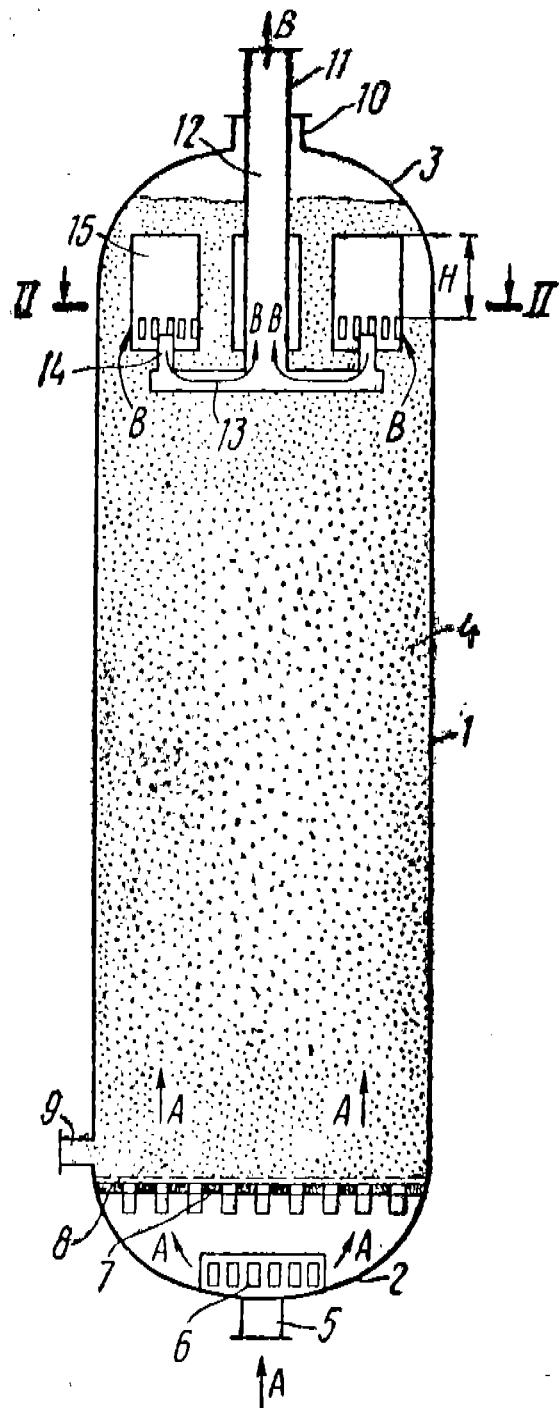
characterized in that a retaining device situated at the catalyst superficial layer and made as a number of closed vessels embedded in the catalyst bed and held to the nozzles of the reaction products' collecting

header in such a manner that the portion of each vessel facing the bottom end-plate of the cylinder-shaped shell is perforated to at least the level of the ends of the nozzles of the reaction products' collecting header.

Inventor : GEORGE EDWARD BERKEY

Application No. 883/Mas/84 Filed November 16, 1984

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.



Compl. specn. 12 pages.

Drg. 1 sheet

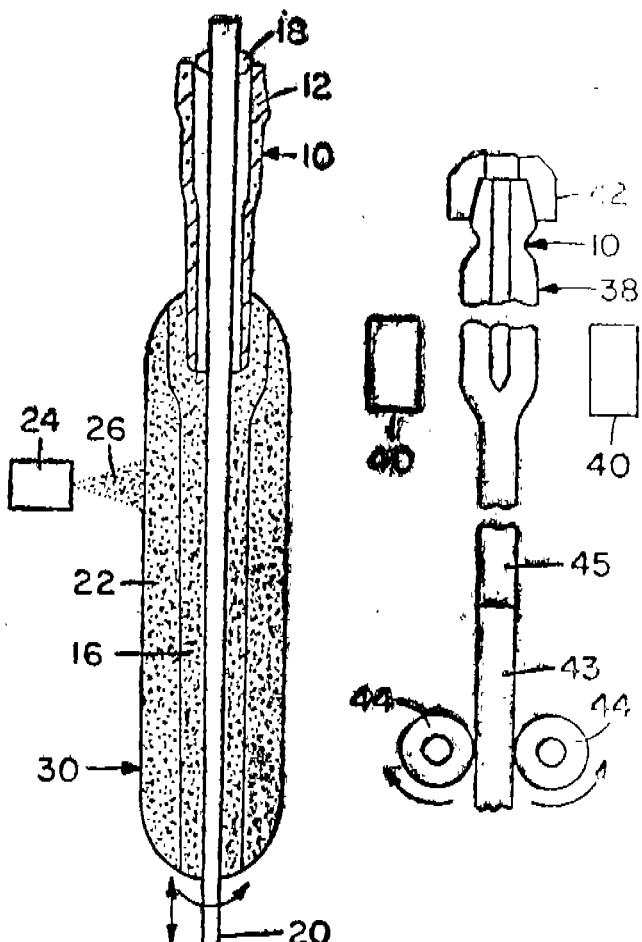
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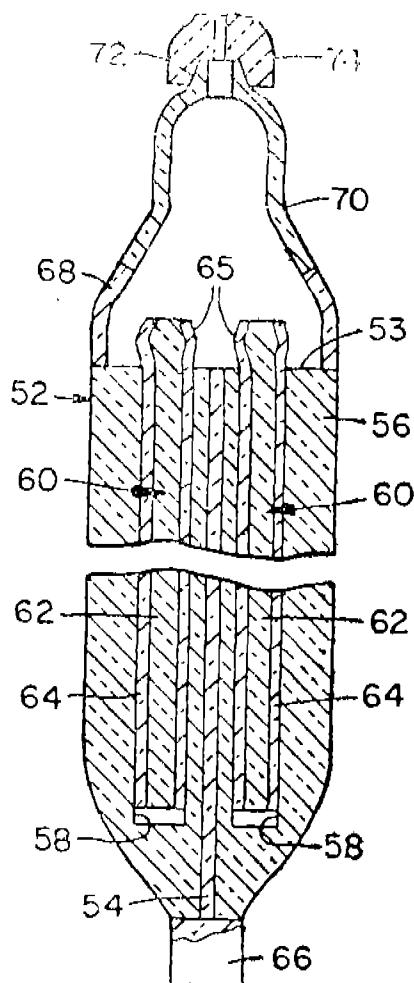
163771

Int. Cl.⁴ : C 03 B 37/075.

METHOD OF FORMING AN OPTICAL FIBER HAVING A PLURALITY OF LONGITUDINALLY-EXTENDING GLASS REGIONS.

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF CORNING, NEW YORK 14831, U.S.A.





Compl. specn. 28 pages.

Drg. 2 sheets

Class I.

163772

Int. Cl. 4—C01B 33/26

A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant: MOBIL OIL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST 42ND STREET, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors: ERIC GERARD DEROVANE, ROLAND VONBALLMOOS.

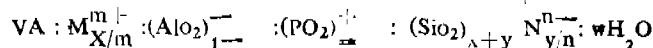
Application No. 983/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM—1 which, in its

as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1—A of the specification and has the composition,



wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H_2O and x and y are numbers of form greater than —1 to less than +1 which satisfy the relationships:

- (1) if x is O, then y is not O,
- (2) if y is O, then x is not O,
- (3) if the atomic ratio of Al/P is greater than 1, then $x+y$ is greater than 0.001 and $y+0.6x$ is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then $x+y$ is greater than 0.001 and $x+0.5y$ is less than 0.5

comprising the steps of:

(i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being $(A)_a : (M_2O)_b : (Al_2O_3)_c : (SiO_2)_d : (P_2O_5)_e : (Solvent)_f : (anion\ source)_g : (H_2O)_h$

wherein A and M are as defined above, a, b, c, d, e, f, g and h are numbers satisfying the relationships $a/(c+d+e)$ is less than 1, $b/(c+d+e)$ is less than 2, $d/(c+d+e)$ is less than 2, $f/(c+d+e)$ is from 0.1 to 15, $g/(c+d+e)$ is less than 2, and $h/(c+d+e)$ is from 3 to 150;

(ii) heating the said mixture at a rate of $5^{\circ}C$ to $100^{\circ}C$ per hour to temperature from $80^{\circ}C$ to $300^{\circ}C$;

(iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

(iv) maintaining said agitated reaction mixture at a temperature of from $80^{\circ}C$ to $300^{\circ}C$ and at pH of from 2 to 9 until crystals of silicophosphoaluminato material are formed;

(v) recovering from said reaction mixture said crystals in a conventional manner.

This novel synthetic crystalline silicophosphoaluminato material is useful in catalytic conversion of organic compounds.

(Com.—10 pages; Dwg.—1 sheet)

Class 163773

INT. CLASS 4 : C 01 B 33/26

A PROCESS FOR PRODUCING SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant: MOBIL OIL CORPORATION, a Corporation organized under the laws of the State of New York, U.S.A., of 150 East 42nd Street, New York New York 10017, U.S.A.

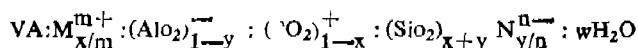
Inventor (s) : ERIC GREARD DEROUANE
ROL AND VON BALLMOOS

Application No. : 934/MAS/84 filed on December 14,
1984

Appropriate office for Opposition Proceedings (Rule 4,
Patent Rules 1972) Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-3 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1—A of the specification and has the composition,



wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is O, then y is not O,
- (2) if y is O, then x is not O,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.6x is less than 0.4 and

- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and x+0.5y is less than 0.5 comprising the steps of :

(i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c : (SiO₂)_d : (P₂O₅)_e : (Solvent)_f : (anion source)_g : (H₂O)_h wherein A and M are as defined above, a, b, c, d, e, f, g and h are numbers satisfying the relationships a/(c+d+e) is less than 4, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150;

(ii) heating the said mixture at a rate of 5°C to 200°C per hour to a temperature from 80°C to 300°C;

(iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

(iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed;

(v) recovering from said reaction mixture said crystals in a conventional manner.

(Complete Specification—22 pages : Drawings—1 sheet)

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compounds

Class
Int. Cl. 4—C 01 B 33/26

163774

A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOPHOSPHOALUMINATE MATERIAL

Applicant: MOBIL OIL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF AMERICA, OF 150 EAST, 42nd STREET NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

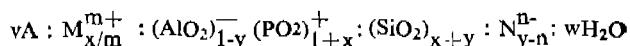
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 986/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

3 Claims

A process for producing a synthetic crystalline silicophosphoaluminate material designated MCM-5 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1/A of the specification and has the composition—



wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described A is an organic directing agent or water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H₂O and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is O, then y is not O,
- (2) if y is O, then x is not O,
- (3) if the atomic ratio of Al/P is greater than 1, then x+y is greater than 0.001 and y+0.06x is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then x+y is greater than 0.001 and x+0.5y is less than 0.5.

comprising the steps of:

(i) preparing a two phase reaction mixture containing sources of aluminium, phosphorous and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being (A)_a : (M₂O)_b : (Al₂O₃)_c : (SiO₂)_d : (P₂O₅)_e : (Solvent)_f : (anion source)_g : (H₂O)_h

wherein A and M are as defined above a, b, c, d, e, f, g and h are numbers satisfying the relationships a/(c+d+e) is less than 4, b/(c+d+e) is less than 2, d/(c+e) is less than 2, f/(c+d+e) is from 0.1 to 15, g/(c+d+e) is less than 2, and h/(c+d+e) is from 3 to 150 ;

(ii) heating the said mixture at a rate of 5°C to 200°C per hour to a temperature from 80°C to 300°C;

(iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other ;

(iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silicophosphoaluminate material are formed ;

(v) recovering from said reaction mixture said crystals in a conventional manner.

This novel synthetic crystalline silicophospho-aluminat material is useful in catalytic conversion of organic compounds.
(Com.—20 pages ; Drawings—1 Sheet)

CLASS :

Int. Cl. 4—C 01 B 33/26

163775

A PROCESS FOR PRODUCING A SYNTHETIC CRYSTALLINE SILICOP HOSPHOALUMINATE MATERIAL

Applicant: MOBIL OIL CORPORATION A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF 150 EAST, 42ND STREET, NEW YORK, NEW YORK - 10017, U.S.A.,

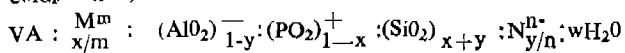
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 984/Mas/84 filed on December 14, 1984.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims.

A process for producing a synthetic crystalline silicophosphoaluminat material designated MCM-3 which, in its as-synthesized form exhibits a characteristic X-ray diffraction pattern as shown in Table 1-A of the specification and has the composition,

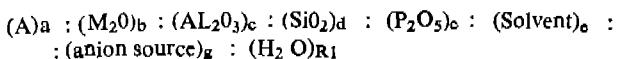


wherein M is a cation of valence m as herein described, N is an anion of valence n as herein described, A is an organic directing agent of water-immiscible organic solvent, V is the number of moles of A, w is the number of moles of H_2O and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is 0, then y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of Al/P is greater than 1, then $x+y$ is greater than 0.001 and $y+0.6x$ is less than 0.4 and
- (4) if the atomic ratio of Al/P is less than 1, then $x+y$ is greater than 0.001 and $x+0.5y$ is less than 0.5

comprising the steps of :

- (i) preparing a two phase reaction mixture containing sources of aluminium, phosphorus and silicon, an organic directing agent and substantially water immiscible organic solvent, the molar composition of terms of oxides and organic components of the said reaction mixture being :



wherein A and M are as defined above a, b, c, d, e, f, g and h are number satisfying the relationships $a/(c+d+e)$ is less than 4, $b/(c+d+e)$ is than 2, $d/(c+d+e)$ is less than 2, $f/(c+d+e)$ is form 0.1 to 15, $g/(c+d+e)$ is less than 2, and $h/(c+d+e)$ is form 3 to 150 ;

- (ii) heating the said mixture at a rate of 50°C to 200°C per hour to a temperature from 80°C to 300°C ;

- (iii) agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other ;
- (iv) maintaining said agitated reaction mixture at a temperature of from 80°C to 300°C and at a pH of from 2 to 9 until crystals of silica-phosphoaluminat material are formed ;
- (v) recovering from said reaction mixture said crystals in a conventional manner .

This novel synthetic crystalline silicophosphoaluminat material is useful in catalytic conversion of organic compounds.
(Com.—23 pages ; Drawgs.—1 sheet)

CLASS :

Int. Cl. 4—C 01 B 33/26

163776

A METHOD FOR SYNTHESIZING A CRYSTALLINE OXIDE MATERIAL

Applicant : MOONIL OIL CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF 150 EAST, 42ND STREET, NEW YORK, NEW YORK 10017 U.S.A..

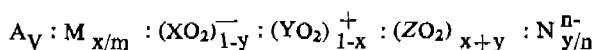
Inventors : (1) ERIC GERARD DEROUANE
(2) ROLAND VON BALLMOOS

Application No. 989-/Mas/84 filed December 14, 1984.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A method for synthesizing an anhydrous crystalline oxide characterised by the following composition :



wherein V is the number of moles of A, m is the valence of cation M, n is the valence of anion M, and x and y are numbers of from greater than -1 to less than +1 which satisfy the relationships :

- (1) if x is 0, the y is not 0,
- (2) if y is 0, then x is not 0,
- (3) if the atomic ratio of X/Y is greater than 1, then $(x+y)$ is greater than 0 and $y+0.6x$ is less than 0.4, and
- (4) if the atomic ratio of X/Y is less than 1, then $(x+y)$ is greater than 0 and 0.5 is greater than $0.5+x$,

said crystalline oxide having an ion exchange capacity of at least about 0.002 meq/g; comprising the steps of :

- a. preparing a reaction mixture of a liquid organic phase containing a water-immiscible organic solvent and an aqueous phase and containing sources of oxides of one or more elements represented by X, Y and Z having valence 3, 5 and 4 respectively, an organic directing agent A such as herein defined, inorganic cations M and anions N as herein described, the components of said reaction mixture having the following relationships :

(A)_a : (M²⁺)_b : (X₂O₃)_c : (ZO₂)_d : (Y₂O₃)_e : (Solvent)_f :
(anion source)_g : (H₂O)_h

wherein a, b, c, d, e, f, g and h are numbers satisfying the following relationships :

a/(c+d+e) is less than 4,
b/(c+d+e) is less than 2,
d/(c+e) is less than 2,
f/(c+d+e) is from 0.1 to 15,
g/(c+d+e) is less than 2, and
h/(c+d+e) is from 3 to 150,

wherein upon initial preparation of said reaction mixture the source of one oxide of the X, Y or Z is dispersed or dissolved in said organic phase;

b. heating said reaction mixture at a rate of from 5° C to 200° C per hour to a temperature of from 80° C to 300° C;

c. agitating said reaction mixture in a manner sufficient to intimately admix said liquid organic and aqueous phases with each other;

d. maintaining said agitated reaction mixture at a temperature of from 80° C to 300° C and a pH of from 2 to 9 until crystals of oxide material are formed;

e. recovering from said reaction mixture said crystals in a conventional manner, and

f. drying the crystals recovered in step (e) in a conventional manner.

This novel synthetic crystalline silicophosphoaluminate material is useful in catalytic conversion of organic compound.

(Com.—53 pages; Drwgs.—1 sheet)

CLASS : 163777

Int. Cl.4 : A 01 N 57/02.

A METHOD FOR THE PREPARATION OF A SOLID, PHYTOACTIVE COMPOSITION.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT 06881, U.S.A. A AMERICAN COMPANY.

Inventor : JIMMY HUA-HIN CHAN, ROGER RACHID DJAFAR.

Application No. 418/Mas/86 filed 28 May 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

5 Claims

A method for the preparation of a solid, phytoactive composition comprising :

- (a) forming an initial mixture comprising a phytoactive N-phosphonomethyl-N-carboxymethyl compound, a solvent and a molten surfactant such as herein described, the surfactant being solid at ambient temperatures, wherein the ratio of the said phytoactive N-phosphonomethyl-N-carboxymethyl compound to surfactants is 10 : 1 to 1 : 10 by weight;
- (b) removing solvent by any known manner from said initial mixture to form a final mixture at a temperature above the melting point of the surfactant; and
- (c) cooling said final mixture to a temperature below the melting point of the surfactant to form a N-phosphonomethyl-N-carboxymethyl composition which is solid at ambient temperature.

Compl. specification 28 pages drg. 1 sheet

The composition prepared according to this invention are useful in regulating the plant growth and as herbicides.

CLASS : 163778

Int. Cl.4 : A 23 L 1/09.

METHOD OF PRODUCING A SUGAR SYRUP FROM SORGHUM.

Applicant : BIOCON (U.K.) LIMITED, OF FARDIS-TON, NR. TENBURY WELLS, WORCESTERSHIRE; AND CADBURY SCHWEPPES PLC, OF BOURNVILLE, BIRMINGHAM B 30 2 LU ENGLAND, A BRITISH COMPANY.

Inventor : NORMAN DAVID JACKSON, BRIAN ANDREW McLUSKIE.

Application No. 806/Mas/86 filed on 13th October, 1986.

Convention dated 12th October, 85 (No. 8525194) : U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

4 Claims

A process for the production of sugar syrup from sorghum grain comprising the steps of :

- (a) partially hydrolysing the starch in the sorghum grain utilising a temperature stable amylase enzyme to give a dextrose equivalent of 10 to 20;
- (b) treating the partially hydrolysed starch with amyloglucosidase, α -amylase, β -glucanase and cellulase enzymes whereby starch is hydrolysed to form sugars in a filtrable aqueous medium;
- (c) removing any unwanted solids from said aqueous medium; and
- (d) concentrating the aqueous medium to produce a sugar syrup.

Compl. specification 24 pages.

Drg. 1 sheet

Sugar syrup prepared according to this invention are useful in the production of beverages.

CLASS : 163779

Int. Cl.4 : C 07 D 7/26.

A FACILE PHASE-TRANSFER CATALYSED SYNTHESIS OF COUMAPHOS (O, O-DIETHYL-O-(3-CHLORO-4-METHYL-7-COUMARINYL) PHOSPHOROTHIOATE.

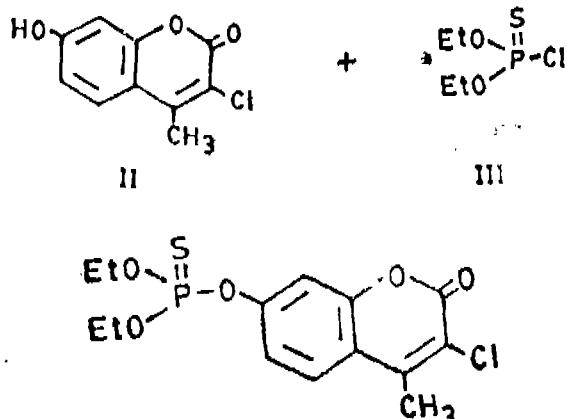
Applicant & Inventor : ACHHA JAGDISH KUMAR, GAZULA LEVI DAVID KRUPADANAM AND GOTETY SRIMANNARAYANA, DEPARTMENT OF CHEMISTRY, OSMANIA UNIVERSITY, HYDERABAD-500 007, A.P., INDIANS.

Application No. 611/Mas/87 filed 24 August 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

2 Claims

A process for the preparation of Coumaphos (IV) of the



accompanying drawings in nearly quantitative yields comprising the condensation of equimolar quantities of 7-hydroxy-3-chloro-4-methyleoumarin (II) and diethylthiophosphoryl chloride (III) in presence of aq. K_2CO_3 as a base under phase-transfer conditions using water and Benzene as two phases, characterised in that :

- equimolar amounts of compounds of formula II and III of the accompanying drawings are taken in benzene and aq. K_2CO_3 solution is added to it and stirred at 60° (0.5 hr) and then;
- tetrabutylammonium hydrogen sulphate is added as the phase-transfer agent and stirring continued for 1-1.5 hrs at 60°C , recovering Coumaphos of formula IV from the benzene layer.

Compl. specn. 5 pages

drg. 3 sheets

CLASS :

163780

Int. Cl.4 : C 07 D 21/00.

A NEW AND FACILE SYNTHESIS OF 4, 5, 8-TRIMETHYLPYRROLE (TRIOXASALEN).

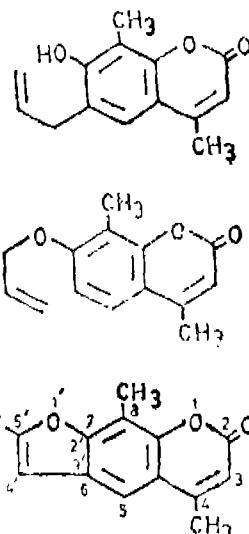
Applicant & Inventor : RACHA JAGDISH KUMAR, GAZULA LEVI DAVID KRUPADANAM AND GOTETY SRIMANNARAYANA, DEPARTMENT OF CHEMISTRY, OSMANIA UNIVERSITY, HYDERABAD-500 007, A.P., INDIANS.

Application No. 612/Mas/87 filed 24 August, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras-2.

2 Claims

A process for the preparation of trioxasalen (4, 5:8-trimethylpsoralene) having the structure IV, shown in the accompanying drawings comprising subjecting 7-hydroxy-4, 8-dimethylcoumarin (I) to Claisen rearrangement to produce 7-hydroxy-6-allyl-4, 8-dimethylcoumarin (II) by refluxing in N, N-diethylaniline for 3 hrs at $215-220^\circ\text{C}$, conversion of the 7-hydroxy-6-allyl-4, 8-dimethylcoumarin (II) so produced into the sodium salt (III) by known means and cyclization of the sodium salt by dichlorobis (benzonitrile) palladium in benzene medium to yield trioxasalen (IV) in 96% overall yield.



Compl. specn. 7 pages

Drg. 3 sheets

R. A. ACHARAYA
Controller General of Patents,
Designs and Trade Marks